

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

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A. Mass Emissions

Mass Emissions of Effluent Using 2011 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)	2011 Mass Emissions (mt/yr)	2011 Concentration	Units
Flow (MGD)			155.8	MGD
Total Suspended Solids	<u>13,995</u>	9,035	42	mg/L
BOD	-	23,234	108	mg/L
Arsenic	0.88	0.19	0.89	ug/L
Cadmium	1.4	0.01	0.05	ug/L
Chromium	14.2	0.28	1.3	ug/L
Copper	26	4.50	20.9	ug/L
Lead	14.2	0.04	0.2	ug/L
Mercury	0.19	0.001	0.0069	ug/L
Nickel	11.3	1.48	6.9	ug/L
Selenium	0.44	0.20	0.91	ug/L
Silver	2.8	0.01	0.04	ug/L
Zinc	18.3	5.38	25	ug/L
Cyanide	1.57	0.22	0.001	mg/L
Residual Chlorine	--	0.65	0.003	mg/L
Ammonia	8018	7,076	32.8	mg/L
Non-Chor. Phenols	2.57	3.51	16.3	ug/L
Chlorinated Phenols	1.73	0.00	0.0	ug/L
Endosulfan	0.006	0.0000	0	ng/L
Endrin	0.008	0.00	0	ng/L
hexachlorocyclohexanes *(HCH)	0.025	0.0000	0	ng/L
* (all as Lindane, the gamma isomer)				
Acrolein	17.6	0.00	0	ug/L
Antimony	56.6	0.13	0.6	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	1.16	5.4	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)	2011 Mass Emissions (mt/yr)	2011 Concentration	Units
Nitrobenzene	2.07	0.00	0	ug/L
Thallium	36.8	0.00	0.0	ug/L
Toluene	3.31	0.26	1.2	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	0.005	ug/L
Bis(2-chloroethyl) ether	1.61	0.00	0	ug/L
Bis(2-ethylhexyl) phthalate	2.89	0.00	0.0	ug/L
Carbon Tetrachloride	0.79	0.00	0	ug/L
Chlordane	0.014	0.0000	0	ng/L
Chloroform	2.19	0.97	4.5	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	0.34	1.6	ug/L
1,3-dichloropropene	1.42	0.00	0	ug/L
Dieldrin	0.011	0.00	0	ng/L
2,4-dinitrotoluene	1.61	0.00	0	ug/L
1,2-diphenylhydrazine	1.52	0.00	0	ug/L
Halomethanes	5.86	0.82	3.8	ug/L
Heptachlor	0.001	0.00000	0	ng/L
Heptachlor epoxide	0.024	0.00	0	ng/L
Hexachlorobenzene	0.54	0.00	0	ug/L
Hexachlorobutadiene	0.054	0.00	0	ug/L
Hexachloroethane	1.13	0.00	0	ug/L
Isophorone	0.71	0.00	0	ug/L
N-nitrosodimethylamine	0.76	0.00	0	ug/L
N-nitrosodiphenylamine	1.47	0.00	0	ug/L
PAHs	15.45	0.00	0	ug/L
PCBs	0.275	0.00	0	ng/L
TCDD equivalents	--	0.000000002	0.010	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, 2010 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	% removal ⁸	The "Mean Annual Percent Removal" limit for BOD is 58%. There is no mass emission limit.				
Total Suspended Solids	% removal ¹		>80			
	mg/L		75 ⁴			
	metric tons/year		15,000 ⁹			
	metric tons/year		13,598 ¹⁰			
pH	pH units	Within the limits of 6.0 - 9.0 at all times.				
Grease & Oil	mg/L		25	40		75
	lb/day		42,743	68,388		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 ¹¹ (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	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
		820			1,600	2,500

1 To be calculated on a system-wide basis, as provided In Addendum No.1 to Order No. R9-2002-0025.

2 To be achieved on permit effective date through December 31, 2013. Applies only to TSS discharges from POTWs owned and operated by the Discharger and the Discharger's wastewater generated in the Metro System service area; does not apply to wastewater (and the resulting TSS) generated in Mexico which, as a result of upset or shutdown, is treated at and discharged from Point loma WTP.

3 To be achieved on January 1, 2014. Applies only to TSS discharges from POTWs owned and operated by the Discharger and the Discharger's wastewater generated in the Metro System service area; does not apply to wastewater (and the resulting TSS) generated in Mexicowhich, as a result of upset or shutdown, is treated at and discharged from Point loma WTP.

4 Based on average monthly performance data (1990 through 1994) for the Point loma WTP provided by the Discharger for the 1995 301 (h) application.

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) ¹²	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

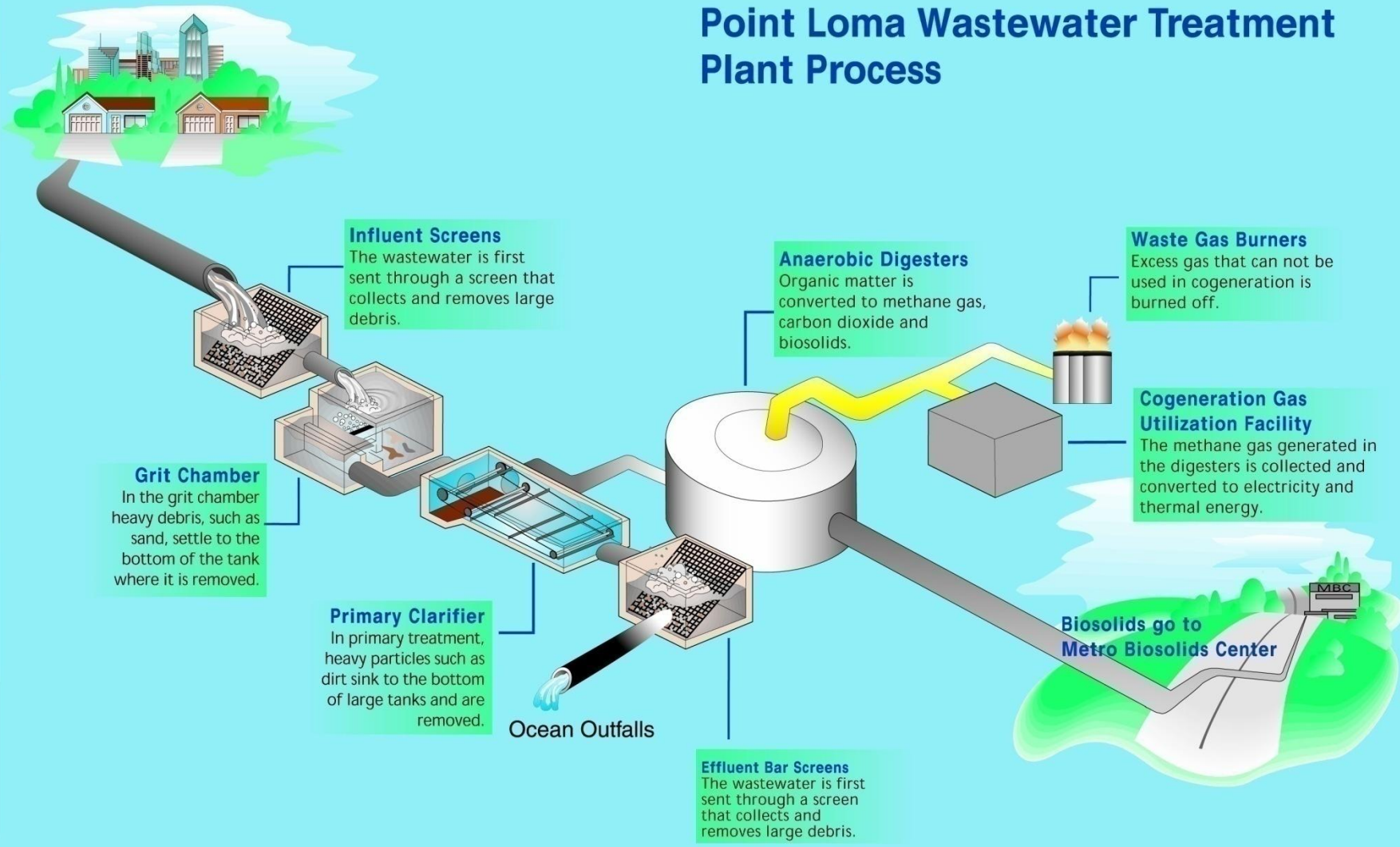
Constituent	Units	Monthly Average (30-Day)
Acrylonitrile	ug/L	21
Aldrin	ng/L	4.5
Benzene	ug/L	1,200
Benzidine	ug/L	0.014
Beryllium	ug/L	6.8
Bis(2-chloroethyl)ether	ug/L	9.2
Bis(2-ethylhexyl)phthalate	ug/L	720
Carbon Tetrachloride	ug/L	180
Chlordane	ng/L	4.7
Chloroform	ug/L	27,000
DDT	ng/L	35
1,1,2,2-tetrachloroethane	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
Diieldrin	ng/L	8.20
2,4-dinitrotoluene	ug/L	530
1,2-diphenylhydrazine	ug/L	33
Halomethanes	ug/L	27,000
Heptachlor	ng/L	10
Hexachlorobenzene	ug/L	0.043
Hexachlorobutadiene	ug/L	2,900
Hexachloroethane	ug/L	510
Isophorone	ug/L	150,000
N-nitrosodimethylamine	ug/L	1,500
N-nitrosodiphenylamine	ug/L	510
PAHs	ug/L	1.80
PCBs	ng/L	3.90
TCDD equivalents	pg/L	0.8
Tetrachloroethylene	ug/L	410
Toxaphene	ng/L	430
Trichloroethylene	ug/L	5,500
Vinyl Chloride	ug/L	7,400

C. Influent and Effluent Data Summaries

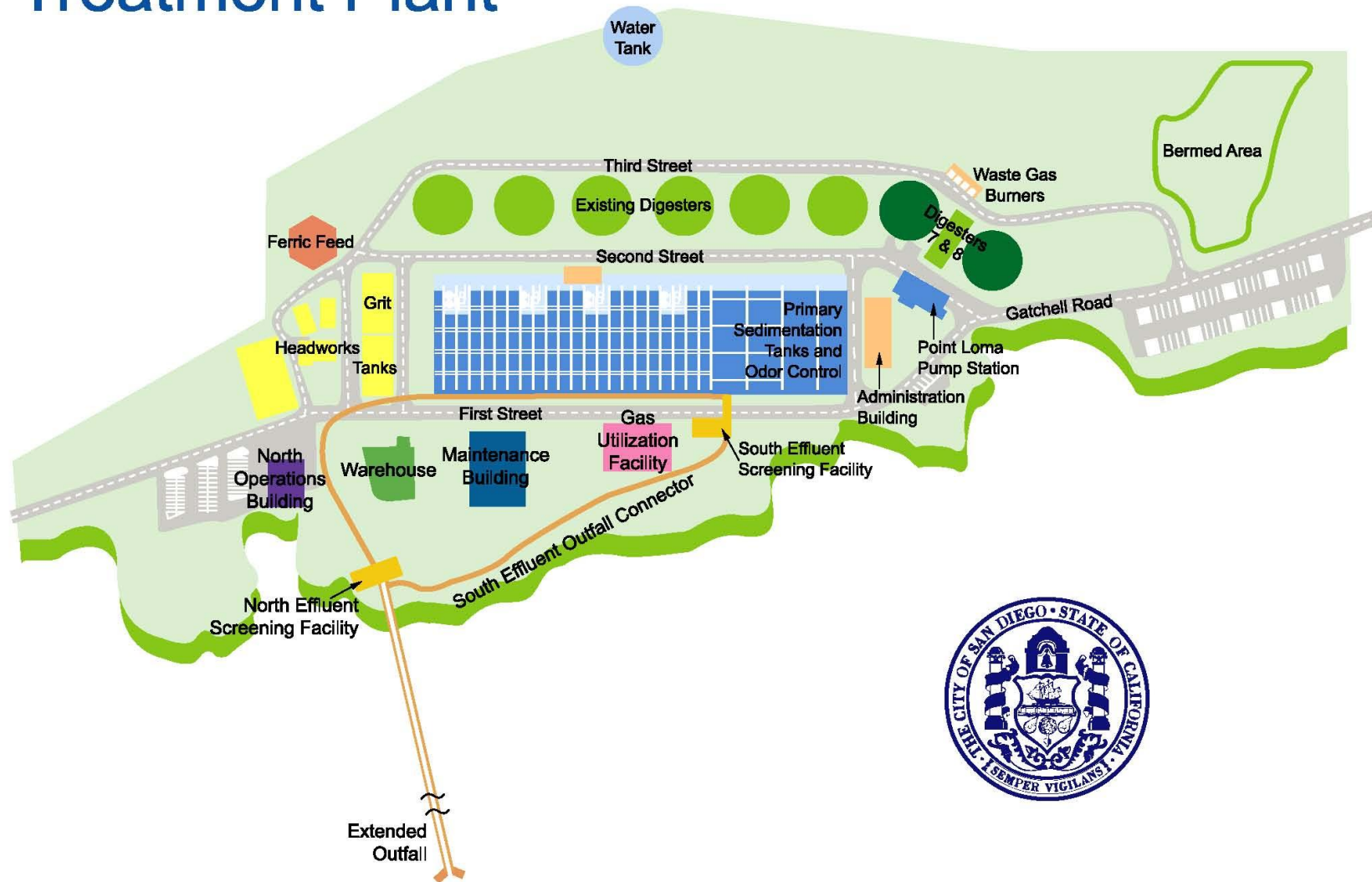
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Point Loma Wastewater Treatment Plant Process



Point Loma Wastewater Treatment Plant



POINT LOMA WASTEWATER TREATMENT PLANT

Annual 2011

Biochemical Oxygen Demand Concentration
(24-hour composite)

Month	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 -2011	166.5	261	362427	105	145804	59.8
FEBRUARY -2011	164.5	266	364933	107	146797	59.8
MARCH -2011	169.2	254	358427	104	146757	59.1
APRIL -2011	156.5	278	362848	102	133131	63.3
MAY -2011	150.6	291	365497	106	133136	63.6
JUNE -2011	149.6	300	374299	110	137243	63.3
JULY -2011	148.0	308	380171	114	140712	63.0
AUGUST -2011	147.0	307	376376	114	139762	62.9
SEPTEMBER-2011	148.0	287	354250	112	138244	61.0
OCTOBER -2011	149.6	285	355584	107	133500	62.5
NOVEMBER -2011	162.8	286	388317	101	137133	64.7
DECEMBER -2011	157.5	296	388811	114	149745	61.5
Average	155.8	285	369328	108	140164	62.0

Total Suspended Solids Concentration
(24-hour composite)

Month	Flow	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 -2011	166.5	312	261	83.7	433246	41	31	75.6	56933
FEBRUARY -2011	164.5	298	253	84.9	408835	37	29	78.4	50761
MARCH -2011	169.2	283	245	86.6	399349	35	27	77.1	49389
APRIL -2011	156.5	322	279	86.6	420278	38	30	78.9	49598
MAY -2011	150.6	342	298	87.1	429553	42	33	78.6	52752
JUNE -2011	149.6	348	298	85.6	434187	41	32	78.0	51154
JULY -2011	148.0	351	302	86.0	433246	44	34	77.3	54310
AUGUST -2011	147.0	379	321	84.7	464646	46	37	80.4	56395
SEPTEMBER-2011	148.0	346	296	85.5	427075	46	36	78.3	56779
OCTOBER -2011	149.6	350	299	85.4	436682	47	38	80.9	58640
NOVEMBER -2011	162.8	342	289	84.5	464351	42	33	78.6	57026
DECEMBER -2011	157.5	311	271	87.1	408514	39	31	79.5	51228
Average	155.8	332	284		429997	42	33		53747

Month	Percent Removal TSS (%)	Percent Removal VSS (%)
JANUARY -2011	86.9	88.1
FEBRUARY -2011	87.6	88.5
MARCH -2011	87.6	89.0
APRIL -2011	88.2	89.2
MAY -2011	87.7	88.9
JUNE -2011	88.2	89.3
JULY -2011	87.5	88.7
AUGUST -2011	87.9	88.5
SEPTEMBER-2011	86.7	87.8
OCTOBER -2011	86.6	87.3
NOVEMBER -2011	87.7	88.6
DECEMBER -2011	87.5	88.6
Average	87.5	88.5

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 2011

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-2011	364,017	35,947	7,615	6,389	5,335	11,724	144,684	63.3	60.1	104
FEB-2011	362,379	35,653	4,529	7,042	8,371	15,413	146,085	62.2	59.6	107
MAR-2011	358,575	26,440	15,656	8,617	2,976	11,593	146,001	62.3	59.1	104
APR-2011	362,073	27,906	16,270	7,953	2,613	10,565	132,856	66.4	63.2	102
MAY-2011	364,970	18,340	14,751	5,963	723	6,686	133,219	66.0	63.5	106
JUN-2011	374,667	23,854	11,264	5,433	6,631	12,063	137,740	65.3	63.2	110
JUL-2011	380,586	17,287	15,995	4,303	6,306	10,610	141,138	64.9	62.8	114
AUG-2011	375,837	19,397	18,846	5,852	7,794	13,647	138,817	65.3	63.1	113
SEP-2011	353,894	20,426	12,335	5,915	4,230	10,146	138,818	63.1	60.7	112
OCT-2011	355,435	18,601	12,893	5,809	1,418	7,227	133,723	64.7	62.3	107
NOV-2011	387,702	16,932	17,613	4,629	722	5,351	136,599	67.1	64.5	101
DEC-2011	388,172	16,766	15,935	4,467	1,746	6,213	148,773	64.1	61.6	114
avg	369,026	23,129	13,642	6,031	4,072	10,103	139,871	64.6	62.0	108

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.
JAN-2011	431,854	34,142	10,010	13,439	8,357	21,797	56,467	87.5	86.8	41
FEB-2011	405,811	37,618	7,222	12,039	12,855	24,894	51,599	87.9	87.2	37
MAR-2011	397,837	25,725	23,171	17,826	5,157	22,983	48,936	88.4	87.7	35
APR-2011	419,765	25,942	22,027	12,985	3,744	16,728	49,296	88.9	88.1	38
MAY-2011	429,878	17,947	18,398	12,571	1,596	14,167	52,041	88.4	87.8	41
JUN-2011	434,539	22,675	16,375	19,412	10,713	30,125	51,031	88.4	88.2	41
JUL-2011	433,447	16,640	23,351	11,794	12,027	23,821	53,782	87.9	87.5	44
AUG-2011	465,141	17,551	23,467	18,890	18,563	37,453	55,902	87.9	87.8	46
SEP-2011	427,202	18,611	18,351	18,947	6,376	25,323	56,262	87.1	86.7	46
OCT-2011	436,158	16,714	19,121	16,594	1,749	18,343	58,705	87.1	86.5	47
NOV-2011	463,549	15,084	23,343	12,234	2,151	14,384	56,396	88.3	87.7	42
DEC-2011	408,126	14,671	20,232	11,180	3,483	14,663	50,850	88.0	87.4	39
avg	429,442	21,943	18,756	14,826	7,231	22,057	53,439	88.0	87.5	41

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

2011 Annual

Effluent to Ocean Outfall
(PLE)

Month	pH	Biochemical	Hexane	Temperature (C)	Floating	Turbidity (NTU)	
		Settleable Solids (ml/L)	Oxygen Demand (mg/L)		Extractable Material (mg/L)		Particulates (mg/L)
JANUARY -2011	7.24	0.4	105	11.5	22.4	ND	33
FEBRUARY -2011	7.25	0.3	107	11.5	22.2	ND	36
MARCH -2011	7.27	0.2	104	9.1	22.4	<1.40	34
APRIL -2011	7.23	0.1	102	9.6	23.4	ND	34
MAY -2011	7.23	0.3	106	12.5	24.5	ND	38
JUNE -2011	7.32	0.4	110	13.2	25.3	ND	39
JULY -2011	7.31	0.4	114	15.0	26.8	ND	43
AUGUST -2011	7.28	0.4	114	13.7	27.4	ND	44
SEPTEMBER-2011	7.26	0.4	112	13.9	27.5	ND	46
OCTOBER -2011	7.27	0.5	107	15.0	27.3	ND	43
NOVEMBER -2011	7.30	0.6	101	13.1	25.6	ND	38
DECEMBER -2011	7.31	0.2	114	14.0	23.9	<1.40	41
Average	7.27	0.4	108	12.7	24.9	0.00	39

Influent to Plant
(PLR)

Month	pH	Biochemical	Hexane	Temperature (C)	Floating	Turbidity (NTU)	
		Settleable Solids (ml/L)	Oxygen Demand (mg/L)		Extractable Material (mg/L)		Particulates (mg/L)
JANUARY -2011	7.38	14.9	261	42.2	22.5	<1.40	129
FEBRUARY -2011	7.39	14.2	266	40.5	22.1	<1.40	129
MARCH -2011	7.45	16.0	254	40.0	22.3	<1.40	126
APRIL -2011	7.36	14.0	278	37.5	23.2	<1.40	129
MAY -2011	7.39	14.8	291	45.4	24.2	<1.40	134
JUNE -2011	7.48	15.7	300	46.7	25.0	<1.40	139
JULY -2011	7.44	19.5	308	48.0	26.3	<1.40	141
AUGUST -2011	7.39	19.3	307	45.9	27.1	<1.40	141
SEPTEMBER-2011	7.39	18.2	287	45.5	27.3	<1.40	137
OCTOBER -2011	7.39	14.4	285	43.1	26.9	<1.40	137
NOVEMBER -2011	7.42	13.7	286	37.8	25.3	<1.40	132
DECEMBER -2011	7.43	13.4	296	40.6	23.6	<1.40	132
Average	7.41	15.7	285	42.8	24.7	<1.4	134

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)

2011 Annual

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
Limit:	250000		5900		7		820	
=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2011	4.2	4.3	1.48	0.89	ND	ND	0.79	0.60
FEBRUARY -2011	ND	ND	1.35	1.00	<0.022	<0.022	ND	ND
MARCH -2011	ND	ND	1.46	1.00	<0.022	<0.022	ND	ND
APRIL -2011	ND	ND	1.03	0.85	ND	ND	ND	ND
MAY -2011	ND	<2.9	1.09	0.93	ND	<0.022	ND	ND
JUNE -2011	ND	ND	1.22	0.76	0.059	0.064	<0.53	ND
JULY -2011	<2.9	3.4	0.58	0.60	ND	ND	<0.53	ND
AUGUST -2011	ND	ND	0.73	0.70	ND	ND	ND	ND
SEPTEMBER-2011	<2.9	ND	1.20	0.96	ND	ND	ND	ND
OCTOBER -2011	ND	ND	1.32	1.29	ND	ND	ND	ND
NOVEMBER -2011	ND	ND	1.18	0.87	ND	ND	ND	ND
DECEMBER -2011	ND	ND	1.12	0.77	ND	ND	<0.53	ND
=====	=====	=====	=====	=====	=====	=====	=====	=====
AVERAGE	0.4	0.6	1.15	0.89	0.005	0.005	0.07	0.05

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
Limit:	1600		2100				1600	
=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2011	6.1	1.4	96.1	26.0	6260	2850	<2.0	ND
FEBRUARY -2011	7.6	1.8	95.7	27.6	7370	3380	4.9	2.7
MARCH -2011	5.3	1.4	98.0	22.8	6050	2810	<2.0	ND
APRIL -2011	6.8	1.5	107.0	22.8	6160	2640	2.6	ND
MAY -2011	6.5	1.7	122.0	24.2	6700	2600	4.4	<2.0
JUNE -2011	6.0	2.1	115.0	20.2	6630	2480	3.8	<2.0
JULY -2011	4.4	<1.2	94.1	21.3	5870	2910	2.7	ND
AUGUST -2011	4.6	1.6	90.9	16.8	7380	2880	2.8	ND
SEPTEMBER-2011	7.1	1.4	114.0	17.4	8080	2900	4.6	ND
OCTOBER -2011	7.8	1.3	112.0	16.6	7950	2700	2.6	ND
NOVEMBER -2011	7.0	1.9	108.0	17.0	7330	2550	<2.0	ND
DECEMBER -2011	5.0	<1.2	102.0	18.4	6000	2560	<2.0	ND
=====	=====	=====	=====	=====	=====	=====	=====	=====
AVERAGE	6.2	1.3	104.6	20.9	6815	2772	2.4	0.2

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)

2011 Annual

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
Limit:		4100		12000		540		410
=====								
JANUARY -2011	12.1	8.7	1.63	1.23	0.4	ND	ND	ND
FEBRUARY -2011	12.3	8.3	1.07	1.06	0.7	ND	ND	<3.9
MARCH -2011	12.2	9.2	1.44	1.44	1.0	<0.4	ND	ND
APRIL -2011	12.6	8.2	1.22	1.13	0.4	ND	ND	ND
MAY -2011	12.2	7.8	1.24	1.04	1.1	ND	ND	ND
JUNE -2011	9.8	7.1	1.86	1.06	0.6	ND	ND	ND
JULY -2011	ND	ND	0.94	0.77	ND	ND	ND	ND
AUGUST -2011	6.0	5.0	1.02	0.74	<0.4	ND	ND	ND
SEPTEMBER-2011	12.4	8.2	1.11	0.62	2.1	0.5	ND	ND
OCTOBER -2011	9.4	6.6	0.39	ND	0.8	ND	ND	ND
NOVEMBER -2011	11.7	8.1	1.25	0.82	<0.4	ND	ND	ND
DECEMBER -2011	8.9	5.4	1.12	0.98	0.9	ND	ND	ND
=====								
AVERAGE	10.0	6.9	1.19	0.91	0.7	0.0	ND	0.0

Analyte:	Zinc	Zinc	Mercury	Mercury
MDL	2.5	2.5	.0005	.0005
Units	UG/L	UG/L	UG/L	UG/L
Source:	PLR	PLE	PLR	PLE
Limit:		410		33
=====				
JANUARY -2011	136	29	0.096	0.0082
FEBRUARY -2011	145	31	0.112	0.0094
MARCH -2011	157	28	0.069	0.0065
APRIL -2011	152	27	0.227	0.0082
MAY -2011	166	25	0.096	0.0065
JUNE -2011	156	22	0.229	0.0077
JULY -2011	127	25	0.144	0.0076
AUGUST -2011	147	24	0.078	0.0038
SEPTEMBER-2011	173	27	0.160	0.0013
OCTOBER -2011	158	24	0.082	0.0064
NOVEMBER -2011	150	19	0.127	0.0094
DECEMBER -2011	151	24	0.104	0.0075
=====				
AVERAGE	152	25	0.127	0.0069

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

POINT LOMA WASTEWATER TREATMENT PLANT

Ammonia-Nitrogen and Total Cyanides
(Limits shown are the 6-Month Median Maximum)

2011 Annual

Analyte:	Ammonia-N	Ammonia-N	Cyanides, Total	Cyanides, Total
MDL/Units:	.3 MG/L	.3 MG/L	.002 MG/L	.002 MG/L
Source:	PLR	PLE	PLR	PLE
Limit:		123		0.20
JANUARY -2011	30.4	29.1	<0.002	<0.002
FEBRUARY -2011	32.4	31.6	<0.002	<0.002
MARCH -2011	31.1	30.0	0.0025	0.0029
APRIL -2011	33.4	32.6	<0.002	0.0022
MAY -2011	35.7	33.8	0.0023	0.0030
JUNE -2011	36.5	35.2	<0.002	0.0028
JULY -2011	35.1	34.8	<0.002	<0.002
AUGUST -2011	34.8	34.0	<0.002	<0.002
SEPTEMBER-2011	33.2	32.4	<0.002	<0.002
OCTOBER -2011	33.7	33.0	<0.002	<0.002
NOVEMBER -2011	35.1	33.6	<0.002	ND
DECEMBER -2011	33.0	33.4	<0.002	0.0021
Average:	33.7	32.8	0.0004	0.0011

Analyte:	Chlorine Residual, Total
MDL/Units:	.03 MG/L
Source:	PLE
JANUARY -2011	<0.03
FEBRUARY -2011	<0.03
MARCH -2011	0.037
APRIL -2011	<0.03
MAY -2011	<0.03
JUNE -2011	ND
JULY -2011	ND
AUGUST -2011	ND
SEPTEMBER-2011	ND
OCTOBER -2011	ND
NOVEMBER -2011	<0.03
DECEMBER -2011	<0.03
Average:	0.003

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

POINT LOMA WASTEWATER TREATMENT PLANT

Radioactivity

2011 Annual

Analyzed by: TestAmerica Labs

Source	Month		Gross Alpha Radiation	Gross Beta Radiation
=====				
PLE	JANUARY	-2011	5.8±4.1	25.5±9.1
PLE	FEBRUARY	-2011	0.3±3.0	31.4±8.1
PLE	MARCH	-2011	2.9±2.9	31.9±7.5
PLE	APRIL	-2011	3.9±3.8	31.9±8.4
PLE	MAY	-2011	0.0±3.6	33.9±8.2
PLE	JUNE	-2011	1.2±1.7	23.7±7.3
PLE	JULY	-2011	3.2±2.2	31.4±7.0
PLE	AUGUST	-2011	2.4±4.0	27.1±7.6
PLE	SEPTEMBER	-2011	0.7±2.2	28.6±5.9
PLE	OCTOBER	-2011	3.4±5.1	28.7±7.1
PLE	NOVEMBER	-2011	0.6±5.3	33.3±6.5
PLE	DECEMBER	-2011	9.8±7.4	26.7±8.7
=====				
AVERAGE			2.9±3.8	29.5±7.6

Source	Month		Gross Alpha Radiation	Gross Beta Radiation
=====				
PLR	JANUARY	-2011	7.6±5.0	25.3±7.3
PLR	FEBRUARY	-2011	5.6±4.2	35.4±8.4
PLR	MARCH	-2011	2.8±3.7	32.5±7.9
PLR	APRIL	-2011	5.6±4.1	27.6±7.3
PLR	MAY	-2011	2.9±2.8	30.0±8.6
PLR	JUNE	-2011	2.9±3.1	30.5±7.7
PLR	JULY	-2011	1.7±3.6	29.5±7.2
PLR	AUGUST	-2011	3.8±3.8	31.7±7.5
PLR	SEPTEMBER	-2011	2.6±2.6	27.2±5.8
PLR	OCTOBER	-2011	0.7±5.4	28.6±6.2
PLR	NOVEMBER	-2011	5.7±5.8	27.0±4.9
PLR	DECEMBER	-2011	0.6±4.6	23.4±6.8
=====				
AVERAGE			3.5±4.0	29.1±7.1

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

Units in picocuries/liter (pCi/L)

POINT LOMA WASTEWATER TREATMENT PLANT
Chlorinated Pesticide Analysis

2011 Annual

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
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	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	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	ND	ND	ND
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	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	0	0	0
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	0	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	0	0	0	0	0	0	0	0	0

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

POINT LOMA WASTEWATER TREATMENT PLANT
Chlorinated Pesticide Analysis

2011 Annual

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
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	<7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
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	ND	ND	ND	ND	<4	ND	ND	ND	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	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	<3	20	ND	<3	ND	ND	ND	ND	ND	ND	ND	2
Gamma (trans) Chlordane	4	NG/L	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
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	ND	ND	ND
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	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	0	0	0
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	6	20	0	0	0	0	0	0	0	0	0	2
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	0	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	6	20	0	0	0	0	0	0	0	0	0	2

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

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER
Organophosphorus Pesticides

Annual 2011

Analyte	MDL Units	PLE	PLE	PLE	PLE
		01-FEB-2011 P549217	03-MAY-2011 P557924	02-AUG-2011 P564859	04-OCT-2011 P584613
Demeton O	.15 UG/L	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	0.1	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	0.04	0.08
Parathion	.03 UG/L	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00	0.04	0.08
Demeton -O, -S	.15 UG/L	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.10	0.04	0.08

Analyte	MDL Units	PLR	PLR	PLR	PLR
		01-FEB-2011 P549223	03-MAY-2011 P557930	02-AUG-2011 P564865	04-OCT-2011 P584619
Demeton O	.15 UG/L	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	0.1	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	0.05	0.09
Parathion	.03 UG/L	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00	0.05	0.09
Demeton -O, -S	.15 UG/L	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.10	0.05	0.09

ND=not detected

POINT LOMA WASTEWATER TREATMENT PLANT
Tributyl Tin analysis

2011 Annual

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
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

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
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; NS=not sampled; NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT
Acid Extractables

2011 Annual

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
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	14.9	15.5	15.6	18.5	20.6	15.4	16.3	13.5	14.8	16.1	17.6	16.8	16.3
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	14.9	15.5	15.6	18.5	20.6	15.4	16.3	13.5	14.8	16.1	17.6	16.8	16.3
Phenols	2.16	UG/L	14.9	15.5	15.6	18.5	20.6	15.4	16.3	13.5	14.8	16.1	17.6	16.8	16.3

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	40.0	36.9	36.6	21.9	45.6	34.5	33.0	28.1	31.9	31.0	42.3	48.5	35.9
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	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	Average
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
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	18.9	17.8	19.2	19.9	23.4	19.6	22.6	22.0	18.6	21.3	22.2	18.4	20.3
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	18.9	17.8	19.2	19.9	23.4	19.6	22.6	22.0	18.6	21.3	22.2	18.4	20.3
Phenols	2.16	UG/L	18.9	17.8	19.2	19.9	23.4	19.6	22.6	22.0	18.6	21.3	22.2	18.4	20.3

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	50.8	48.0	45.1	43.2	53.0	45.9	49.6	46.2	33.3	36.3	45.0	45.3	45.1
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
Priority Pollutants Base/Neutrals

2011 Annual

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
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	<3.96	ND	ND	ND	ND	ND	ND	0.0
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	<8.96	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0
Diethyl phthalate	3.05	UG/L	3.9	5.4	5.1	5.4	5.2	4.1	5.5	6.9	5.9	5.4	6.0	5.9	5.4
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	3.9	5.4	5.1	5.4	5.2	4.1	5.5	6.9	5.9	5.4	6.0	5.9	5.4
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
Priority Pollutants Base/Neutrals

2011 Annual

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
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	3.4	ND	ND	ND	ND	0.3
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	11.8	ND	9.7	12.8	9.0	10.3	22.2	9.0	10.3	9.2	18.5	11.0	11.2
Diethyl phthalate	3.05	UG/L	4.2	7.3	5.9	4.6	4.8	5.3	7.3	7.1	5.0	5.4	6.0	5.2	5.7
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	16.0	7.3	15.6	17.4	13.8	15.6	29.5	19.5	15.3	14.6	24.5	16.2	17.1
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
Priority Pollutants Purgeables

2011 Annual

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	Average
			JAN Avg	FEB Avg	MAR Avg	APR Avg	MAY Avg	JUN Avg	JUL Avg	AUG Avg	SEP Avg	OCT Avg	NOV Avg	DEC Avg		
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	1.3	0.8	0.9	0.7	ND	ND	ND	ND	0.5	ND	ND	0.5	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	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	<0.9	ND	ND	ND	ND	0.0	
Chloroform	.2	UG/L	5.3	4.2	4.0	4.9	4.0	4.6	4.0	5.0	5.6	4.8	4.0	3.8	4.5	
Chloromethane	.5	UG/L	3.1	2.5	1.2	2.7	5.4	3.4	4.1	5.8	6.0	5.4	3.5	3.0	3.8	
Dibromochloromethane	.6	UG/L	1.2	<0.6	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	
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	0.5	0.5	0.6	0.6	0.8	<0.4	0.8	0.7	0.9*	0.8	0.5	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	0.5	0.3	0.3	ND	ND	0.3	ND	0.5	ND	0.4	ND	ND	0.2	
Methylene chloride	.3	UG/L	1.6	1.4	0.9	2.1	1.5	1.4	1.2	2.2	1.6	1.7	1.8	2.1	1.6	
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	0.6	1.6	0.8	1.5	1.3	1.6	0.7	2.2	1.6	0.8	1.1	0.6	1.2	
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	3.1	2.5	1.2	2.7	5.4	3.4	4.1	5.8	6.0	5.4	3.5	3.0	3.8	
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	10.0	8.1	6.1	9.7	10.9	9.4	9.3	13.0	13.2	11.9	9.3	8.9	10.0	
Purgeable Compounds	1.3	UG/L	13.6	11.3	9.6	12.5	12.8	12.1	10.0	16.5	16.0	13.1	11.2	10.5	12.4	
Acetone	4.5	UG/L	868	522	506	348	446	722	603	568	1420	1820	1020	1940	899	
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	7.0	<6.3	7.6	7.9	10.1	<6.3	12.1	7.6	9.2	<6.3	ND	5.1	
Carbon disulfide	.6	UG/L	1.8	2.1	2.1	1.7	2.7	2.7	3.3	3.6	3.3	3.2	2.5	2.0	2.6	
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	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	
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	5.8	2.7	3.8	1.4	3.1	3.1	1.4	1.2	2.1	2.0	0.9	1.6	2.4	
2-Nitropropane	12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
ortho-xylene	.4	UG/L	0.7	ND	ND	ND	ND	ND	ND	0.9	ND	0.6	ND	ND	0.2	
Styrene	.3	UG/L	ND	ND	ND	0.4	ND	0.4	ND	ND	ND	0.5	0.4	0.6	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	1.3	0.7	0.9	<0.6	0.9	0.7	ND	1.8	ND	1.0	ND	ND	0.6	
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	

* = Blank result of 0.52 Ug/L was greater than the MDL. Result not included in averages.

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

POINT LOMA WASTEWATER TREATMENT PLANT
Priority Pollutants Purgeables

2011 Annual

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Average
			Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
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	1.1	0.6	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	3.4	2.7	2.6	3.0	2.7	3.0	2.7	3.4	2.7	2.5	2.0	1.9	2.7
Chloromethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	1.0	ND	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2
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	0.6	0.6	0.8	0.7	0.9	0.5	0.7^	0.7	0.9*	0.8	0.6	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	0.5	0.7	0.5	0.4	ND	0.6	ND	0.4	ND	<0.3	ND	0.3	0.3
Methylene chloride	.3	UG/L	1.5	1.2	1.3	3.7	1.3	2.7	1.3	4.0	1.5	1.6	1.9	1.6	2.0
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	0.5	0.9	0.6	1.5	0.8	1.4	0.7	0.8	0.8	0.7	0.7	0.6	0.8
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	4.9	3.9	3.9	6.7	4.0	5.7	4.0	7.4	4.2	4.1	3.9	3.5	4.7
Purgeable Compounds	1.3	UG/L	8.5	6.7	7.1	9.4	5.5	8.6	5.2	8.6	5.7	4.8	5.4	5.0	6.7
Acetone	4.5	UG/L	298	361	289	287	456	527	763	494	1180	1760	1470	2330	851
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	6.7	ND	7.1	8.0	11.6	8.6	9.2	ND	9.8	ND	ND	5.1
Carbon disulfide	.6	UG/L	0.9	1.8	1.2	1.1	1.9	2.2	2.8	2.9	2.8	1.9	1.6	1.2	1.9
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	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0
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	8.4	1.4	1.6	0.8	2.7	2.0	2.4	2.7	1.9	1.8	0.8	1.4	2.3
2-Nitropropane	12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	0.7	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2
Styrene	.3	UG/L	ND	0.5	0.4	0.7	ND	0.6	ND	0.3	1.3	0.9	1.0	1.6	0.6
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	1.6	2.4	0.7	0.7	0.7	0.6	ND	<0.6	ND	ND	ND	ND	0.6
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

* = Blank result of 0.52 Ug/L was greater than the MDL. Result not included in averages.

* = Blank result of 0.55 Ug/L was greater than the MDL. Result not included in averages.

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

POINT LOMA WASTEWATER TREATMENT
EFFLUENT
Dioxin and Furan Analysis

ANALYZED BY: Frontier Analytical Laboratories

2011 Annual

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
			P546840	P549217	P555038	P559547	P557924	P566951	P570489	P564859
2,3,7,8-tetra CDD	.215	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.424	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.367	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	DNQ9.90	ND	DNQ5.32	DNQ4.00	DNQ3.91	DNQ5.02	DNQ7.43	DNQ3.21
octa CDD	1.41	PG/L	120.0	DNQ32.0	DNQ40.0	DNQ24.0	DNQ28.0	DNQ44.0	DNQ48.0	DNQ22.0
2,3,7,8-tetra CDF	.209	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.235	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	ND	ND	ND	ND	ND	DNQ3.10	ND	ND

Analyte	MDL	Units	PLE	PLE	PLE	PLE
			SEP	OCT	NOV	DEC
			P579476	P584613	P590295	P597237
2,3,7,8-tetra CDD	.215	PG/L	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.424	PG/L	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.367	PG/L	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	DNQ3.10	DNQ2.20	ND	DNQ2.49
octa CDD	1.41	PG/L	DNQ26.0	DNQ39.0	DNQ20.0	DNQ20.0
2,3,7,8-tetra CDF	.209	PG/L	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.235	PG/L	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	ND	ND	ND	ND
octa CDF	.805	PG/L	DNQ2.40	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT
EFFLUENT
Dioxin and Furan Analysis

ANALYZED BY: Frontier Analytical Laboratories

2011 Annual

Analyte	MDL	Units	Equiv	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
				TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
				P546840	P549217	P555038	P559547	P557924	P566951	P570489	P564859
2,3,7,8-tetra CDD	.215	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	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	ND	ND
1,2,3,6,7,8-hexa CDD	.424	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.367	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.09	ND	DNQ0.053	DNQ0.040	DNQ0.039	DNQ0.050	DNQ0.074	DNQ0.032
octa CDD	1.41	PG/L	0.001	0.120	DNQ0.032	DNQ0.040	DNQ0.024	DNQ0.028	DNQ0.044	DNQ0.048	DNQ0.022
2,3,7,8-tetra CDF	.209	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.235	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	ND	ND	ND	ND	DNQ0.003	ND	ND

Analyte	MDL	Units	Equiv	PLE	PLE	PLE	PLE
				TCDD	TCDD	TCDD	TCDD
				SEP	OCT	NOV	DEC
				P579476	P584613	P590295	P597237
2,3,7,8-tetra CDD	.215	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	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	.424	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.367	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.031	DNQ0.022	ND	DNQ0.025
octa CDD	1.41	PG/L	0.001	DNQ0.026	DNQ0.039	DNQ0.020	DNQ0.020
2,3,7,8-tetra CDF	.209	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.235	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.002	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT
INFLUENT
Dioxin and Furan Analysis

ANALYZED BY: Frontier Analytical Laboratories

2011 Annual

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
			P546843	P549223	P555041	P559550	P557930	P566954	P570492	P564865	P579479
2,3,7,8-tetra CDD	.215	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.424	PG/L	ND	ND	ND	ND	ND	ND	ND	DNQ2.68	ND
1,2,3,7,8,9-hexa CDD	.367	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	DNQ17.8	27.9	DNQ12.2	DNQ14.0	DNQ19.4	DNQ23.0	25.6	36.9	DNQ15.1
octa CDD	1.41	PG/L	430.0	190.0	97.0	160.0	200.0	240.0	190.0	210.0	150.0
2,3,7,8-tetra CDF	.209	PG/L	ND	ND	ND	ND	ND	ND	ND	DNQ0.734	ND
1,2,3,7,8-penta CDF	.235	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	DNQ2.13	ND	ND	ND	DNQ4.34	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	DNQ3.19	ND	DNQ3.59	DNQ4.15	DNQ4.47	DNQ5.28	DNQ4.67	DNQ4.66	DNQ2.76
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	DNQ12.9	DNQ8.54	DNQ10.6	DNQ10.3	DNQ12.1	DNQ14.4	DNQ11.6	DNQ11.6	DNQ9.12

Analyte	MDL	Units	PLR	PLR	PLR
			OCT	NOV	DEC
			P584619	P590298	P597240
2,3,7,8-tetra CDD	.215	PG/L	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.424	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.367	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	DNQ23.1	DNQ17.6	DNQ14.3
octa CDD	1.41	PG/L	220.0	210.0	150.0
2,3,7,8-tetra CDF	.209	PG/L	ND	ND	ND
1,2,3,7,8-penta CDF	.235	PG/L	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	ND	DNQ3.59	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	DNQ4.86	DNQ4.86	DNQ2.47
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	ND	ND	ND
octa CDF	.805	PG/L	DNQ15.8	DNQ9.79	DNQ7.37

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

POINT LOMA WASTEWATER TREATMENT
INFLUENT
Dioxin and Furan Analysis

ANALYZED BY: Frontier Analytical Laboratories

2011 Annual

Analyte	MDL	Units	Equiv	PLR		PLR		PLR		PLR		PLR	
				TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		
				P546843	P549223	P555041	P559550	P557930	P566954	P570492	P564865		
2,3,7,8-tetra CDD	.215	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND	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	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.424	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	DNQ0.268	ND
1,2,3,7,8,9-hexa CDD	.367	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.178	0.279	DNQ0.122	DNQ0.140	DNQ0.194	DNQ0.230	0.256	0.369	0.210	0.210
octa CDD	1.41	PG/L	0.001	0.430	0.190	0.097	0.160	0.200	0.240	0.190	0.210	0.210	0.210
2,3,7,8-tetra CDF	.209	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	DNQ0.073	ND
1,2,3,7,8-penta CDF	.235	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	0.100	DNQ0.213	ND	ND	ND	DNQ0.434	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ0.032	ND	DNQ0.036	DNQ0.042	DNQ0.045	DNQ0.053	DNQ0.047	DNQ0.047	DNQ0.047	DNQ0.047
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.013	DNQ0.009	DNQ0.011	DNQ0.010	DNQ0.012	DNQ0.014	DNQ0.012	DNQ0.012	DNQ0.012	DNQ0.012

Analyte	MDL	Units	Equiv	PLR		PLR		PLR		PLR	
				TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
				SEP	OCT	NOV	DEC				
				P579479	P584619	P590298	P597240				
2,3,7,8-tetra CDD	.215	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	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	ND	ND
1,2,3,6,7,8-hexa CDD	.424	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.367	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.151	DNQ0.231	DNQ0.176	DNQ0.143				
octa CDD	1.41	PG/L	0.001	0.150	0.220	0.210	0.150				
2,3,7,8-tetra CDF	.209	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.235	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	0.100	ND	ND	DNQ0.359	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ0.028	DNQ0.049	DNQ0.049	DNQ0.025				
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.009	DNQ0.016	DNQ0.010	DNQ0.007				

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

**2011
Point Loma Treatment Plant**

Bacteriological Parameters

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

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
January 3, 2011	78,000	<18,000	3000e
January 13, 2011	490,000	140,000	2000e
January 20, 2011	1,300,000	790,000	80,000e
January 27, 2011	7,900,000	2,300,000	38000
January 31, 2011	1,300,000	140,000	3000e
Average	2,200,000	680,000	25,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
February 8, 2011	2,300,000	220000	3000e
February 16, 2011	790,000	230000	19000e
February 22, 2011	1,300,000	490000	1100e
February 28, 2011	330,000	110000	<100
Average	1,200,000	260,000	5,800

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
March 7, 2011	4,900,000	2,300,000	560,000
March 14, 2011	790,000	70,000	3,300
March 21, 2011	2,300,000	2,300,000	340,000
March 28, 2011	7,900,000	1,100,000	24,000
Average	4,000,000	1,400,000	230,000

*Multiple tube Fermentation Technique (MTF) SM 9221B (Total Coliform) & SM9221E (Fecal coliform)

**Membrane Filtration (MF) – EPA 1600

“e”, estimated value, plate count falls outside the acceptable range per EPA method guidelines.

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
April 4, 2011	490000	220000	8000e
April 11, 2011	2300000	490000	42000
April 18, 2011	2300000	490000	22000e
April 25, 2011	4900000	1100000	5100
Average	2,500,000	580,000	19,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
May 2, 2011	1,400,000	490,000	4800
May 9, 2011	4,900,000	4,900,000	120000e
May 16, 2011	2,300,000	1,300,000	32000
May 23, 2011	2,300,000	280,000	9000e
May 31, 2011	2,300,000	170,000	31000
Average	2,600,000	1,400,000	39,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
June 6, 2011	1,700,000	490,000	56,000
June 13, 2011	790,000	490,000	130,000e
June 20, 2011	7,900,000	1,700,000	52,000
June 28, 2011	2,300,000	270,000	10,000e
Average	3,200,000	740,000	62,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
July 5, 2011	2,200,000	1,100,000	21,000
July 11, 2011	1,300,000	490,000	2,000e
July 18, 2011	4,900,000	490,000	15,000e
July 26, 2011	4,900,000	2,300,000	25,000
Average	3,300,000	1,100,000	16,000

*Multiple tube Fermentation Technique (MTF) SM 9221B (Total Coliform) & SM9221E (Fecal coliform)

**Membrane Filtration (MF) – EPA 1600

“e”, estimated value, plate count falls outside the acceptable range per EPA method guidelines.

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
August 1, 2011	2,200,000	700,000	7,000e
August 9, 2011	1,700,000	700,000	7,000e
August 15, 2011	7,900,000	1,300,000	180,000e
August 22, 2011	7,900,000	4,900,000	80,000e
August 29, 2011	4,600,000	2,300,000	40,000
Average	4,860,000	1,980,000	40,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
September 6, 2011	2,800,000	1,300,000	6,000e
September 12, 2011	23,000,000	13,000,000	50,000
September 20, 2011	700,000	260,000	3,700
September 26, 2011	3,300,000	490,000	15,000
Average	7,450,000	3,762,500	19,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
October 3, 2011	4,900,000	2,300,000	120,000e
October 10, 2011	2,300,000	790,000	17,000
October 18, 2011	1,700,000	230,000	4,000e
October 24, 2011	6,300,000	1,700,000	41,000
October 31, 2011	3,100,000	460,000	21,000
Average	3,660,000	1,096,000	41,000

*Multiple tube Fermentation Technique (MTF) SM 9221B (Total Coliform) & SM9221E (Fecal coliform)

**Membrane Filtration (MF) – EPA 1600

“e”, 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 7, 2011	6,300,000	3,300,000	240,000
November 14, 2011	3,300,000	1,300,000	330,000
November 21, 2011	7,900,000	2,800,000	1,000,000e
November 28, 2011	1,700,000	330,000	380,000
Average	4,800,000	1,932,500	490,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
December 5, 2011	490,000	170,000	4,000e
December 12, 2011	14,000,000	4,600,000	590,000
December 19, 2011	330,000	68,000	7,000e
December 27, 2011	230,000	78,000	16,000
Average	3,762,500	1,229,000	150,000

*Multiple tube Fermentation Technique (MTF) SM 9221B (Total Coliform) & SM9221E (Fecal coliform)

**Membrane Filtration (MF) – EPA 1600

“e”, estimated value, plate count falls outside the acceptable range per EPA method guidelines.

POINT LOMA WASTEWATER TREATMENT PLANT

2011 Annual

Analyte:	Total Hardness		Calcium Hardness		Magnesium Hardness		Calcium		Magnesium	
	MDL:	.4 mg/L	.1 mg/L		.4 mg/L		.04 mg/L		.1 mg/L	
Source:	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2011	454	450	215	215	239	235	86	86	58	57
FEBRUARY -2011	366	367	173	173	193	194	70	70	47	47
MARCH -2011	375	376	182	182	194	194	73	73	47	47
APRIL -2011	386	399	187	193	198	206	75	77	48	50
MAY -2011	385	382	183	181	202	201	73	72	49	49
JUNE -2011	388	392	182	182	207	209	73	73	50	51
JULY -2011	394	392	180	179	214	213	72	72	52	52
AUGUST -2011	375	378	170	172	204	206	68	69	50	50
SEPTEMBER-2011	404	404	169	172	235	232	68	69	57	56
OCTOBER -2011	384	395	163	170	221	226	65	68	54	55
NOVEMBER -2011	410	398	166	163	244	235	66	65	59	57
DECEMBER -2011	405	401	171	168	234	234	68	67	57	57
Average:	394	395	178	179	215	215	71	72	52	52

Analyte:	Alkalinity		Total Solids		Total Vol. Solids		Conductivity		Fluoride	
	MDL:	20 mg/L	10 mg/L		100 mg/L		10umhos/cm		.05 mg/L	
Source:	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2011	279	262	2010	1730	516	279	2940	2930	0.72	0.72
FEBRUARY -2011	272	257	1800	1560	468	250	2720	2730	0.94	0.95
MARCH -2011	281	262	1790	1580	497	280	2610	2630	0.99	1.03
APRIL -2011	293	279	1900	1620	513	265	2800	2810	1.07	1.08
MAY -2011	325	302	1910	1660	530	297	2830	2860	0.98	0.99
JUNE -2011	302	285	1910	1670	548	318	2800	2840	0.95	0.97
JULY -2011	297	278	1980	1710	556	314	2870	2910	0.92	0.93
AUGUST -2011	291	280	2030	1650	612	293	2770	2790	1.03	1.02
SEPTEMBER-2011	283	272	2140	1860	588	348	3150	3160	1.01	1.07
OCTOBER -2011	283	272	1990	1750	561	321	2970	3010	0.89	0.91
NOVEMBER -2011	283	268	2090	1800	531	279	3210	3230	0.88	0.96
DECEMBER -2011	276	266	2020	1780	540	303	3140	3050	0.92	0.91
Average:	289	274	1964	1698	538	296	2901	2913	0.94	0.96

Analyte:	Chloride		Bromide		Sulfate		Nitrate		Ortho Phosphate	
	MDL:	7 mg/L	.1 mg/L		9 mg/L		.04 mg/L		.2 mg/L	
Source:	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2011	601	607	1.45	1.43	267	258	0.11	0.60	4.05	2.44
FEBRUARY -2011	536	558	1.34	1.35	213	211	0.21	1.42	5.68	3.02
MARCH -2011	522	538	1.28	1.29	224	218	0.10	1.14	3.99	2.14
APRIL -2011	554	577	1.35	1.38	222	223	ND	0.27	5.04	3.12
MAY -2011	558	577	1.38	1.36	212	204	0.12	0.70	5.84	3.72
JUNE -2011	559	591	1.38	1.40	200	196	0.13	0.72	5.60	4.18
JULY -2011	604	624	1.49	1.60	190	185	0.22	0.55	7.22	5.60
AUGUST -2011	573	594	1.41	1.42	179	173	0.25	1.25	6.94	5.62
SEPTEMBER-2011	686	704	1.81	1.78	186	176	0.06	0.54	4.66	5.48
OCTOBER -2011	658	674	1.71	1.70	176	168	0.16	0.61	5.42	4.68
NOVEMBER -2011	730	718	1.98	1.92	179	167	0.14	0.68	4.89	4.30
DECEMBER -2011	658	690	1.68	1.75	178	172	0.19	0.61	5.16	3.60
Average:	603	621	1.52	1.53	202	196	0.14	0.76	5.37	3.99

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

POINT LOMA WASTEWATER TREATMENT PLANT
From 01-JAN-2011 To 31-DEC-2011

Analyte:	Lithium		Sodium		Potassium		Chemical Oxygen Demand		Soluble BOD	
	MDL:	mg/L	1 mg/L	mg/L	.3 mg/L	mg/L	18 mg/L	mg/L	2 mg/L	mg/L
Source:	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2011	0.037	0.037	371	373	25.0	24.5	563	211	70	69
FEBRUARY -2011	0.030	0.030	310	320	23.2	23.1	569	228	74	74
MARCH -2011	0.032	0.034	304	315	22.4	21.9	567	220	68	69
APRIL -2011	0.037	0.035	311	334	23.2	24.3	625	221	70	67
MAY -2011	0.033	0.032	322	331	24.8	24.5	619	232	79	68
JUNE -2011	0.033	0.034	336	350	25.0	25.0	623	234	83	75
JULY -2011	0.032	0.031	366	379	26.7	26.9	647	229	86	85
AUGUST -2011	0.030	0.029	351	363	25.9	26.2	671	238	81	77
SEPTEMBER-2011	0.029	0.029	422	427	29.0	28.9	615	246	75	72
OCTOBER -2011	0.027	0.030	396	414	28.5	29.0	615	262	76	73
NOVEMBER -2011	0.027	0.027	446	438	29.9	29.0	642	238	78	69
DECEMBER -2011	0.026	0.026	415	425	28.8	28.5	633	270	82	76
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Average:	0.03	0.03	363	372	26.0	26.0	616	236	77	73

Analyte:	Total Dissolved Solids		Floatables		Turbidity		Aluminum		Barium	
	MDL:	mg/L	1.4 mg/L	mg/L	.13 NTU	NTU	47 ug/L	ug/L	.039 ug/L	ug/L
Source:	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2011	1640	1660	<1.4	ND	129	33	1030	165	87	39
FEBRUARY -2011	1510	1530	<1.4	ND	129	36	1320	305	81	33
MARCH -2011	1490	1510	<1.4	<1.4	126	34	856	191	73	31
APRIL -2011	1540	1540	<1.4	ND	129	34	877	237	81	34
MAY -2011	1530	1550	<1.4	ND	134	38	941	183	79	30
JUNE -2011	1580	1590	<1.4	ND	139	39	778	59	77	29
JULY -2011	1600	1610	<1.4	ND	141	43	415	ND	67	30
AUGUST -2011	1550	1560	<1.4	ND	141	44	662	87	71	28
SEPTEMBER-2011	1740	1750	<1.4	ND	137	46	685	ND	71	25
OCTOBER -2011	1750	1770	<1.4	ND	137	43	873	226	67	23
NOVEMBER -2011	1630	1650	<1.4	ND	132	38	790	108	60	19
DECEMBER -2011	1720	1740	<1.4	<1.4	132	41	795	97	61	21
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Average:	1607	1622	<1.4	0.0	134	39	835	138	73	29

Analyte:	Boron		Cobalt		Molybdenum		Manganese		Vanadium	
	MDL:	ug/L	.85 ug/L	ug/L	.89 ug/L	ug/L	.24 ug/L	ug/L	.64 ug/L	ug/L
Source:	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
JANUARY -2011	423	424	ND	ND	9	7	123	114	3.70	0.64
FEBRUARY -2011	371	272	<0.85	0.87	9	7	122	108	5.13	1.35
MARCH -2011	356	379	<0.85	<0.85	8	7	105	98	4.52	1.25
APRIL -2011	392	413	<0.85	ND	8	7	113	108	5.21	1.59
MAY -2011	380	368	<0.85	ND	9	7	117	105	5.12	1.40
JUNE -2011	340	349	ND	ND	8	7	114	110	4.66	1.71
JULY -2011	387	395	ND	ND	9	7	109	109	4.44	2.33
AUGUST -2011	403	410	ND	ND	9	7	112	107	3.38	<0.64
SEPTEMBER-2011	409	420	<0.85	ND	12	9	116	111	2.30	ND
OCTOBER -2011	431	426	ND	ND	8	6	120	108	2.93	<0.64
NOVEMBER -2011	462	453	ND	ND	7	5	129	120	3.08	ND
DECEMBER -2011	444	432	ND	ND	7	5	119	107	2.90	<0.64
=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====
Average:	400	395	0.00	0.07	9	7	117	109	3.95	0.86

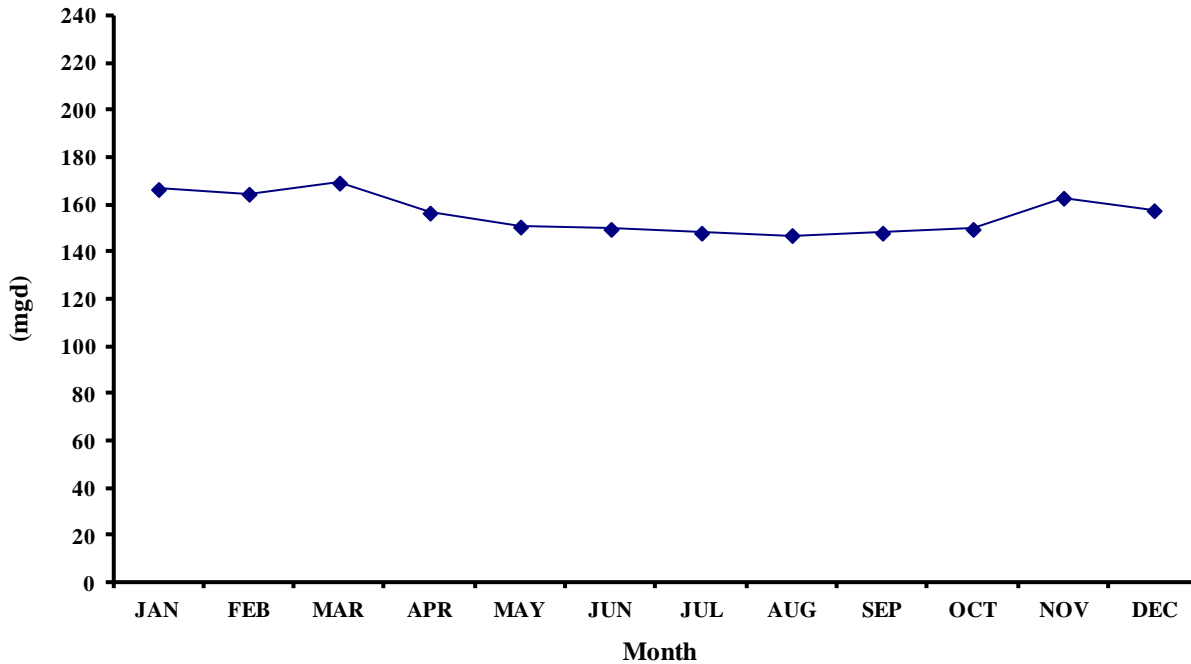
ND=not detected; NS=not sampled; NA=not analyzed

D. Influent and Effluent Graphs

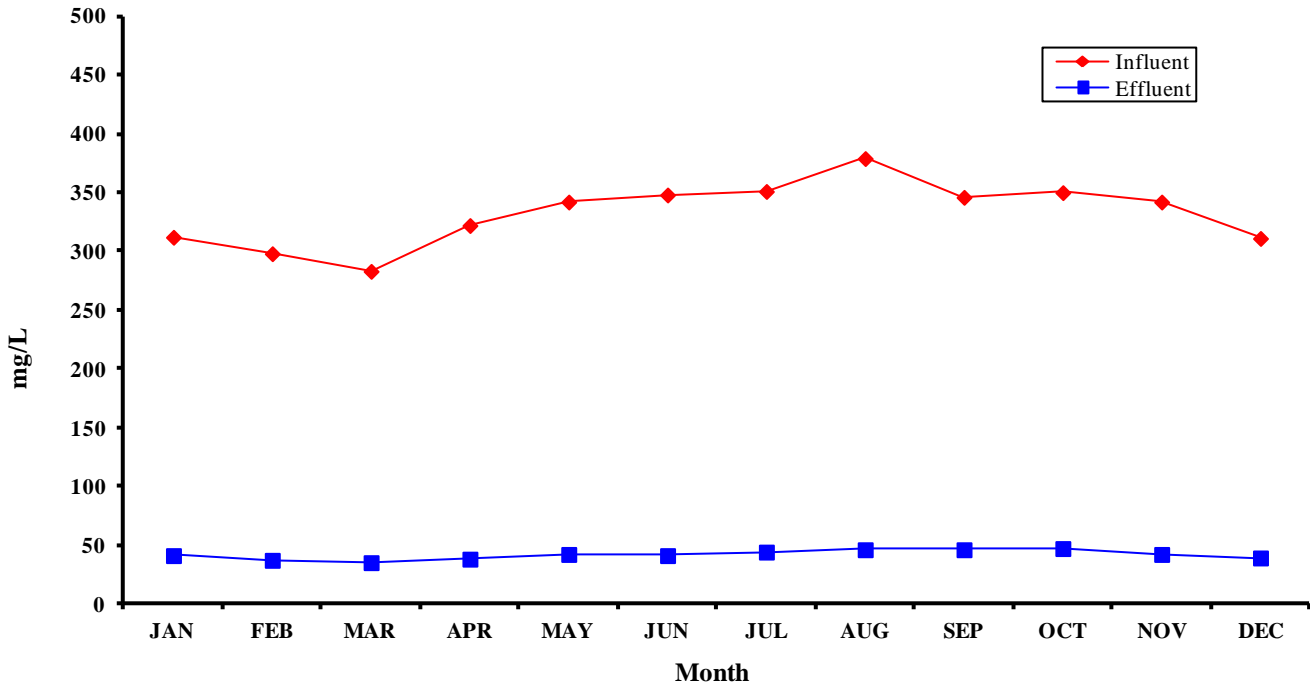
Graphs of monthly averages for permit parameters with measurable concentration averages.

Where possible, the influent and effluent values of a given parameter have been included on the same graph so that removals and other relationships are readily apparent. Please note that many of the graphs are on expanded scales. That is, they may not go to zero concentrations but show, in magnified scale, that range of concentrations where variation takes place. This makes differences and some trends obvious that might normally not be noticed. However, it also provides the temptation to interpret minor changes or trends as being of more significance than they are. Frequent reference to the scales and the actual differences in concentrations is therefore necessary.

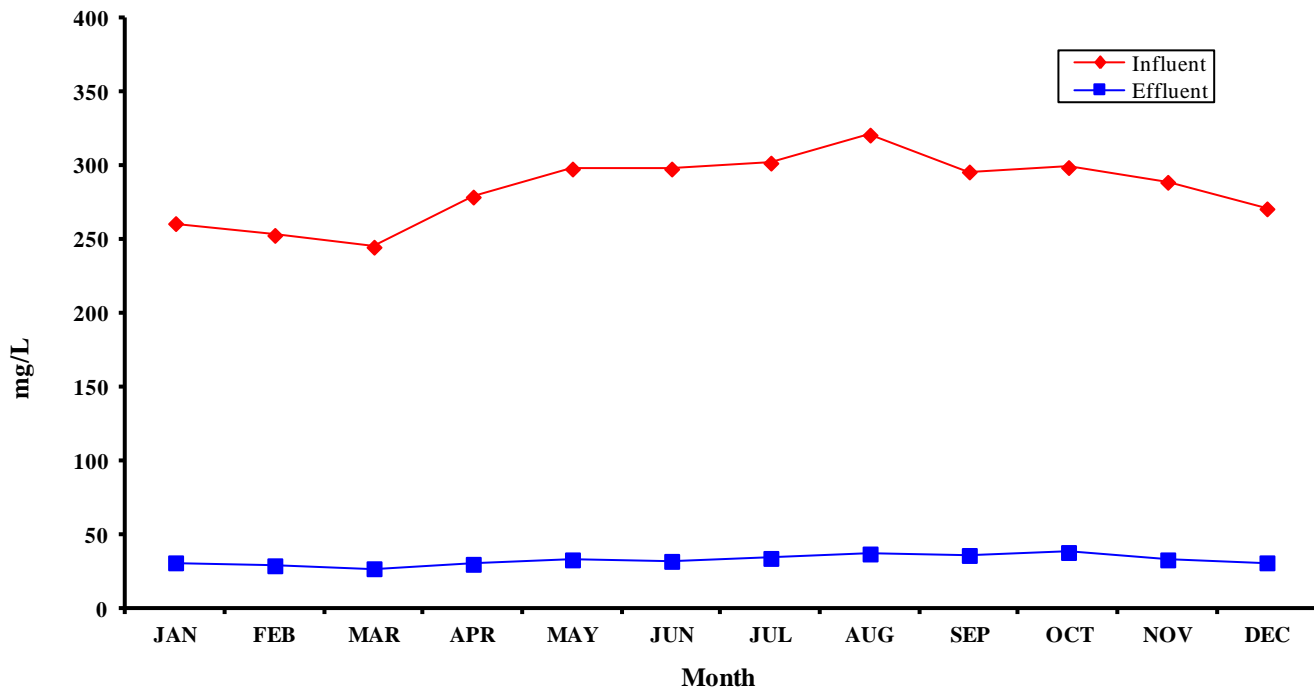
**PLWWTP Flows (mgd)
2011 Monthly Averages**



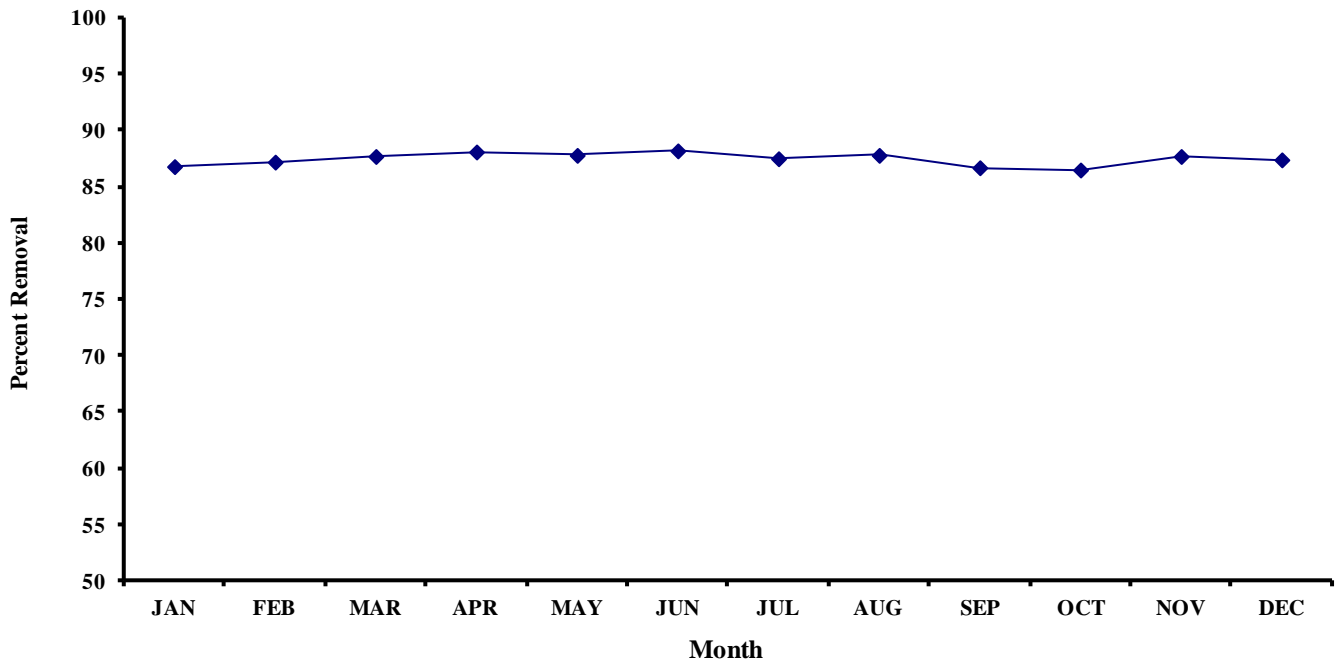
Total Suspended Solids (mg/L) 2011 Monthly Averages



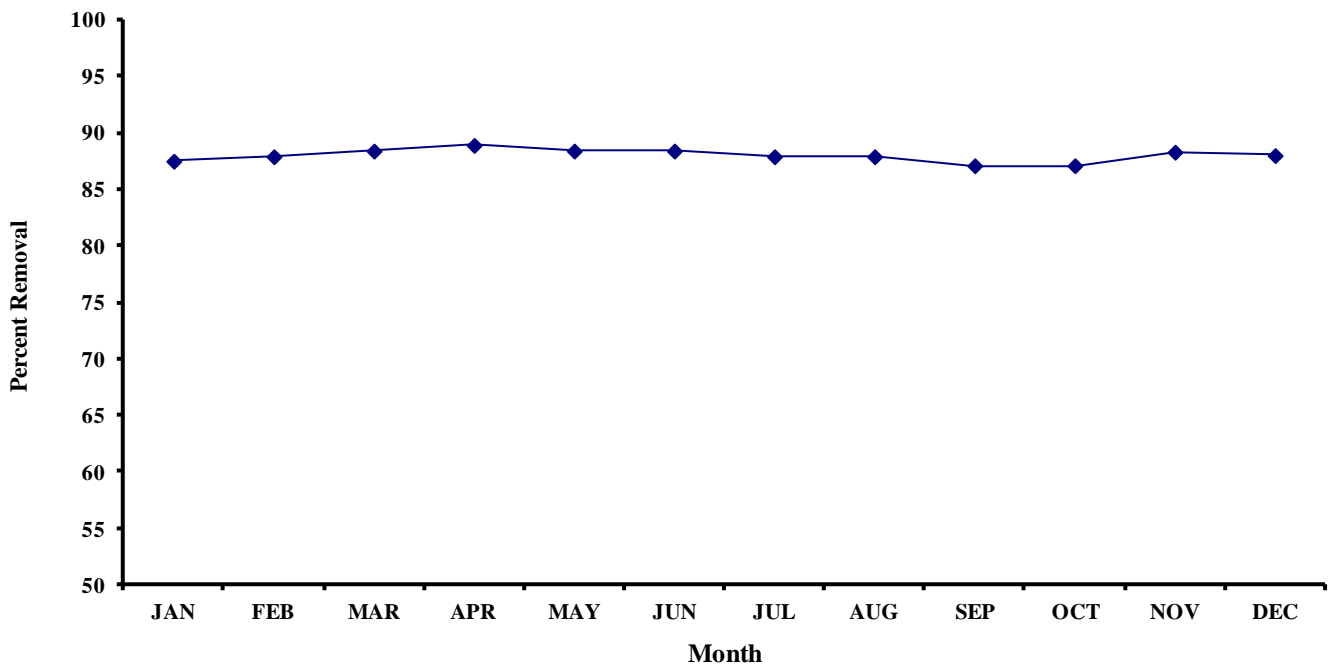
Volatile Suspended Solids (mg/L) 2011 Monthly Averages



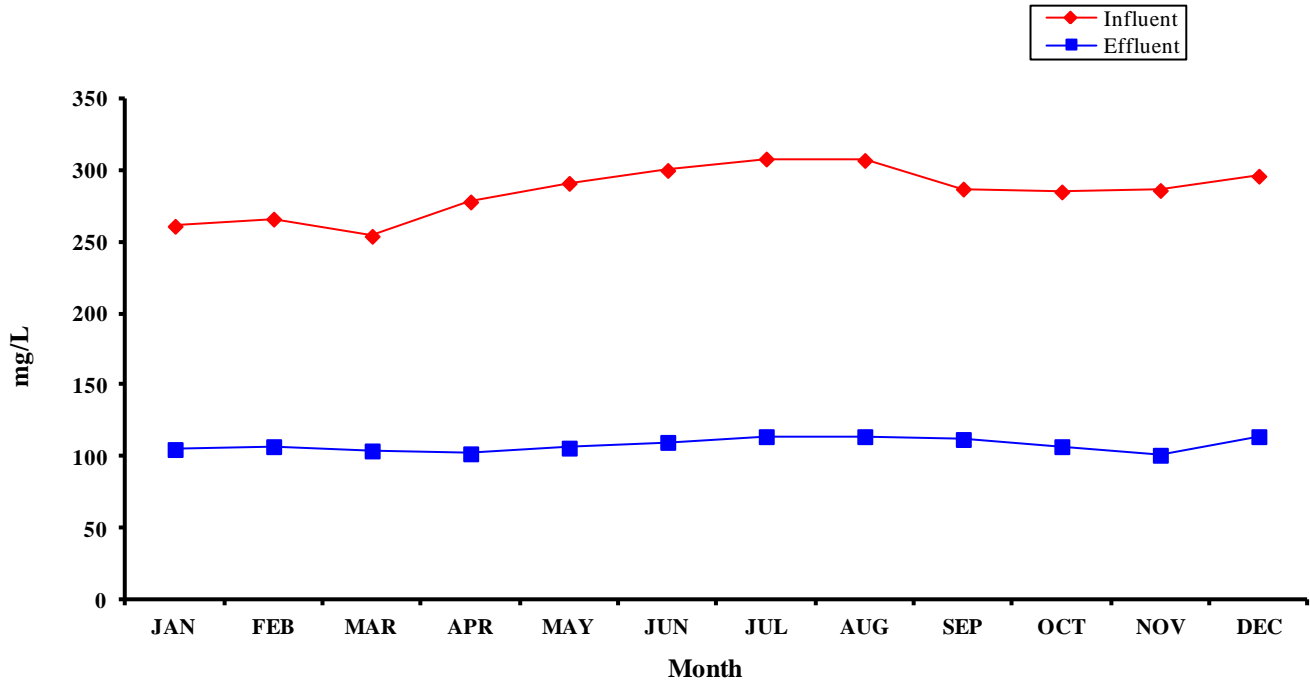
**Total Suspended Solids (%) Removal
2011 Monthly Averages**



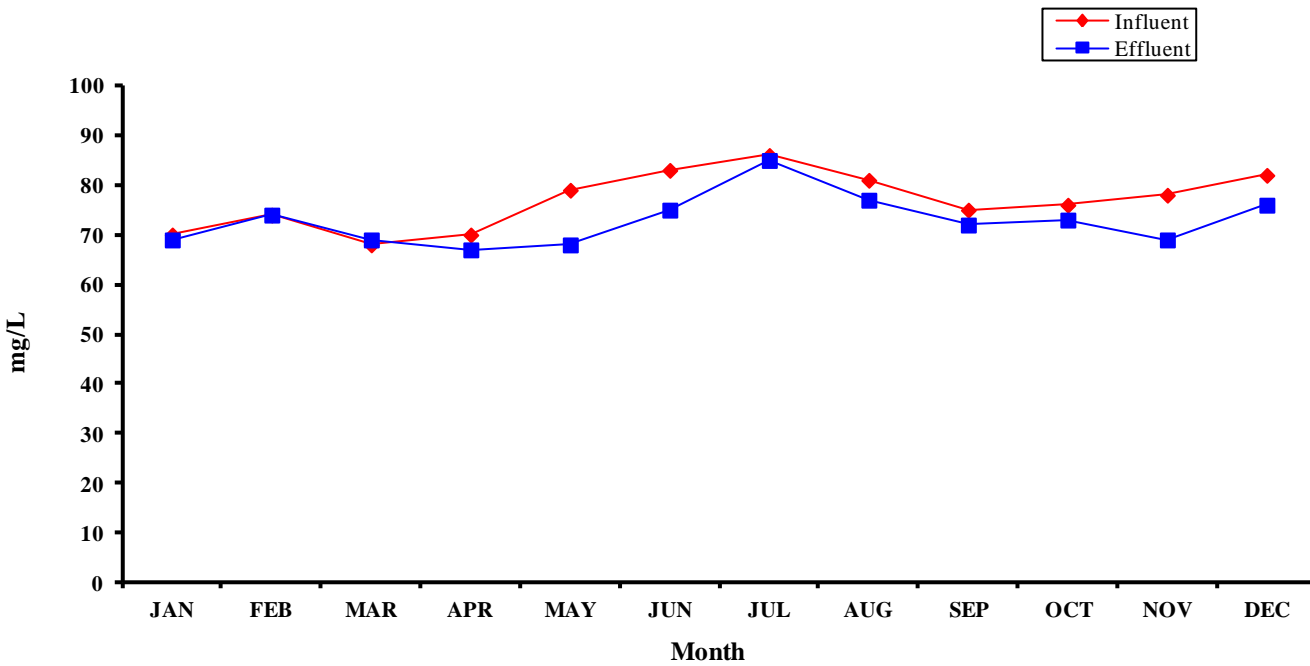
**Total Suspended Solids (%) Removal
2011 Monthly Averages Systemwide**



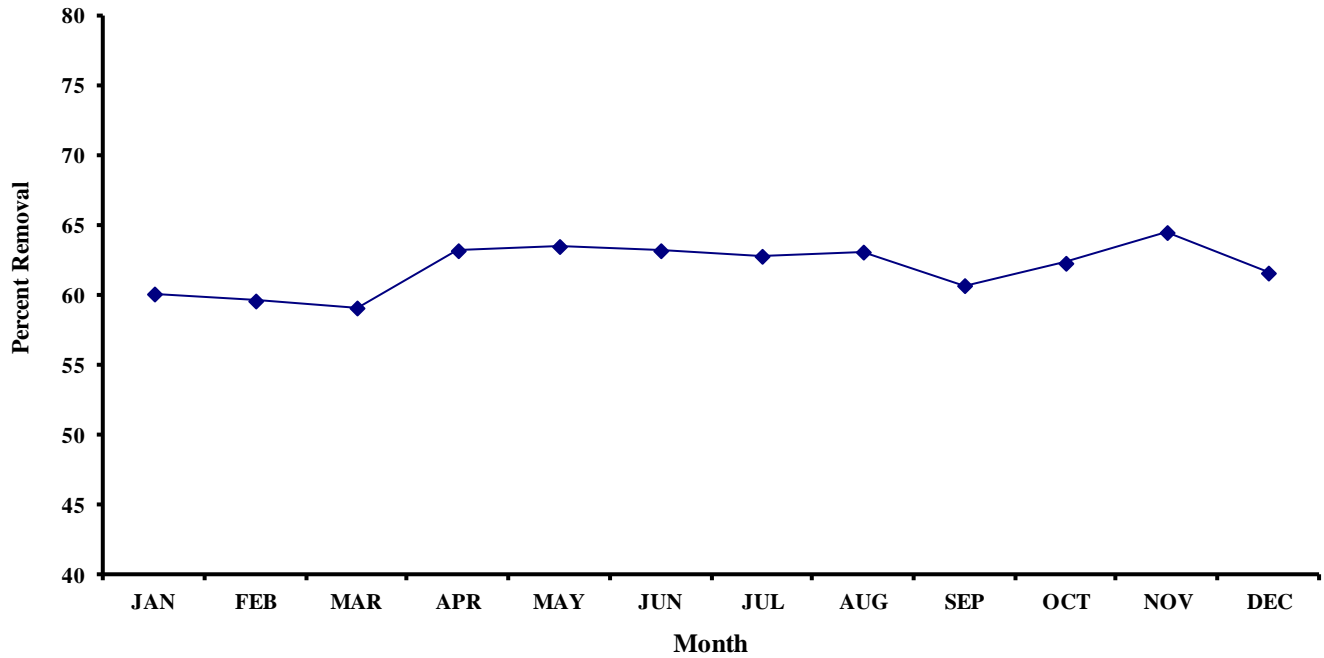
Biochemical Oxygen Demand 2011 Monthly Averages



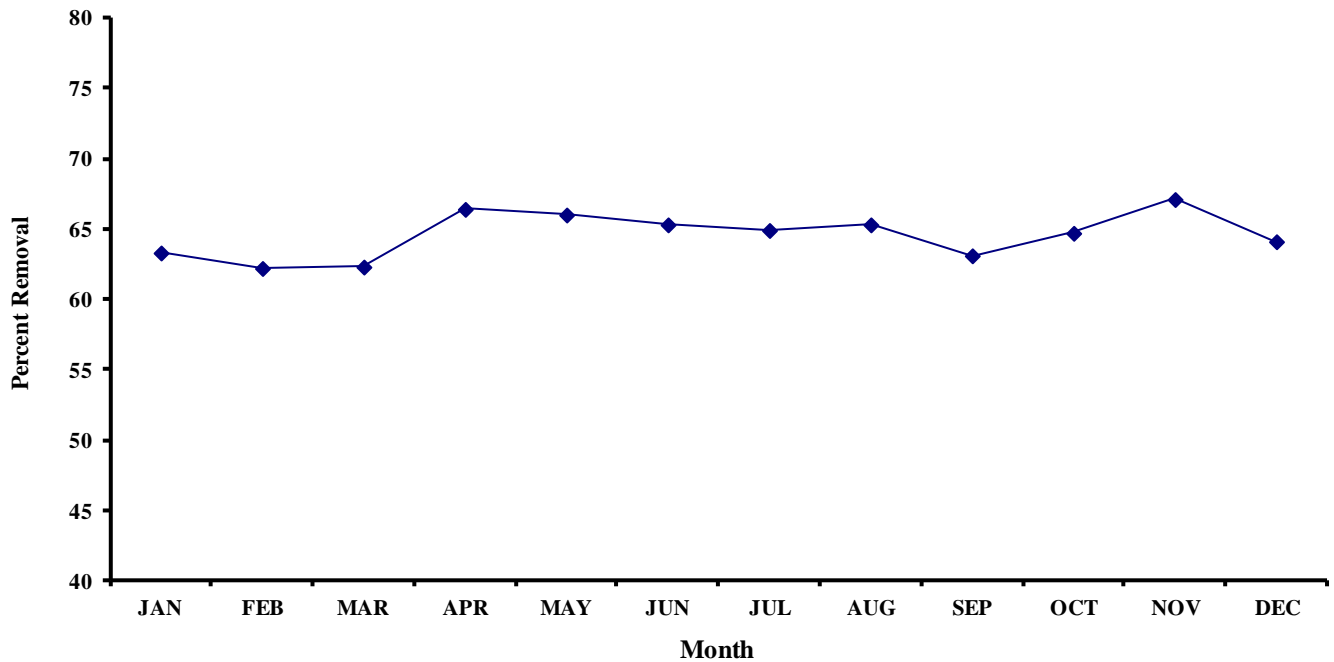
Soluble Biochemical Oxygen Demand 2011 Monthly Averages



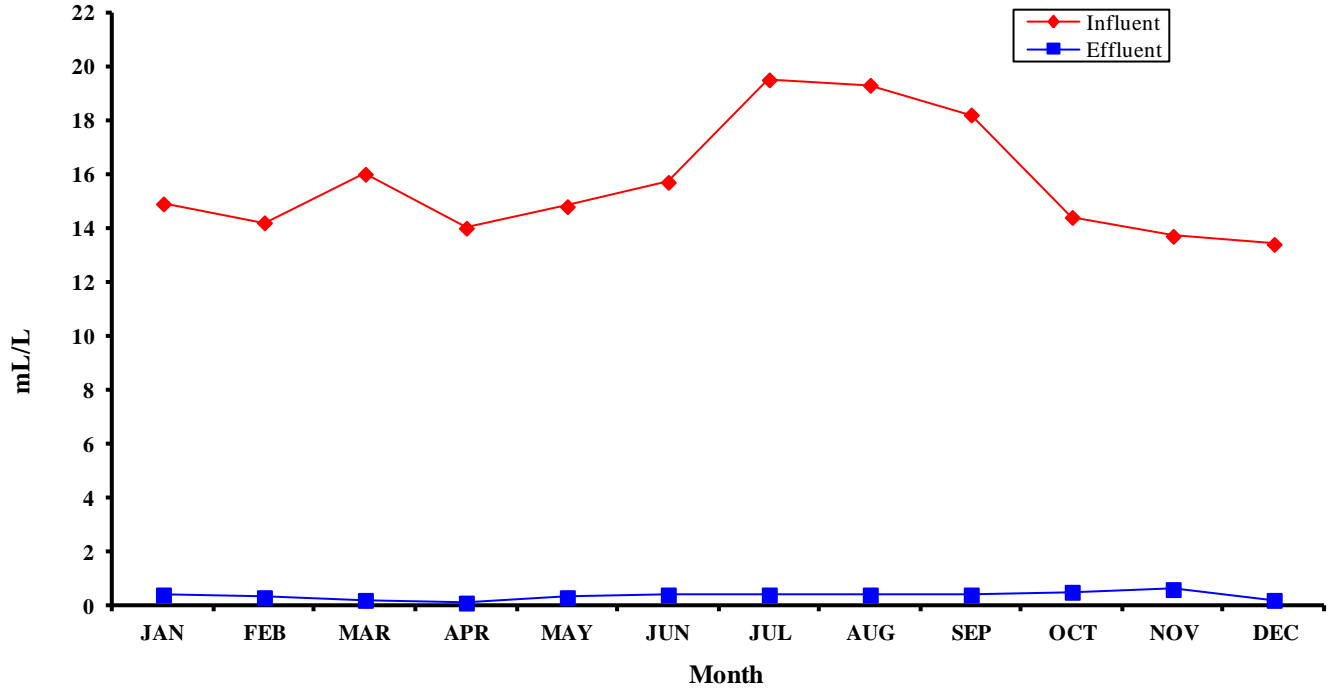
Biochemical Oxygen Demand (%) Removal 2011 Monthly Averages



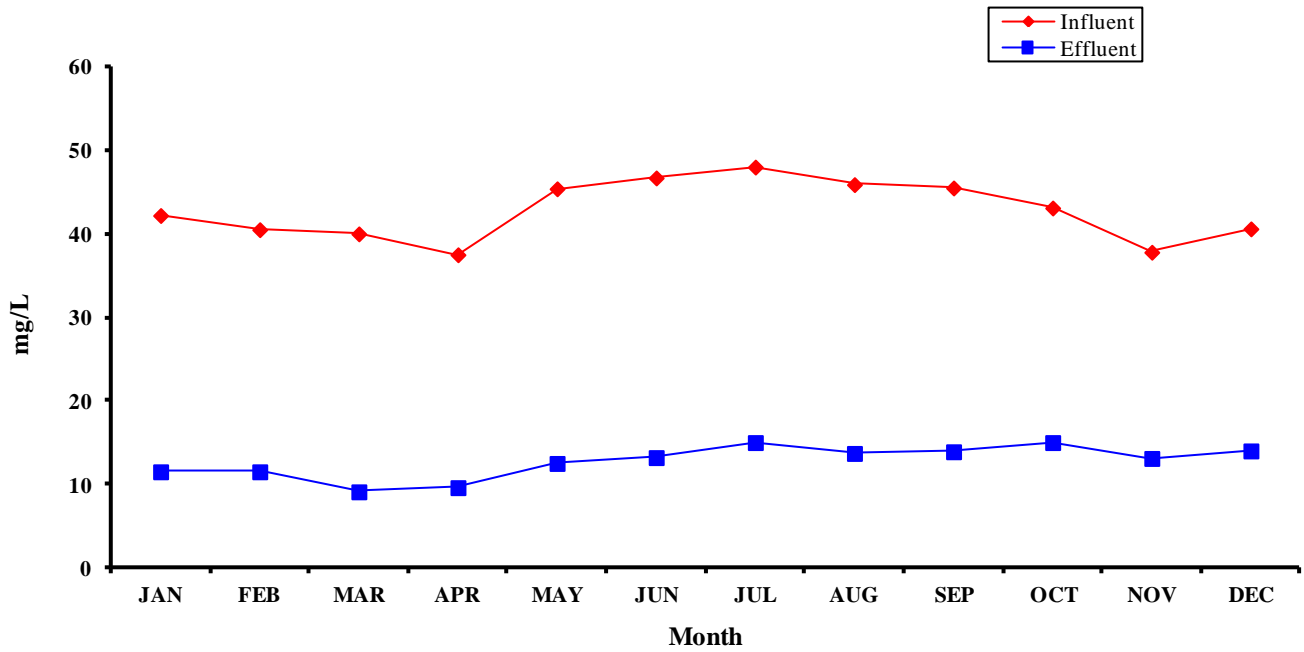
Biochemical Oxygen Demand (%) Removal 2011 Monthly Averages Systemwide



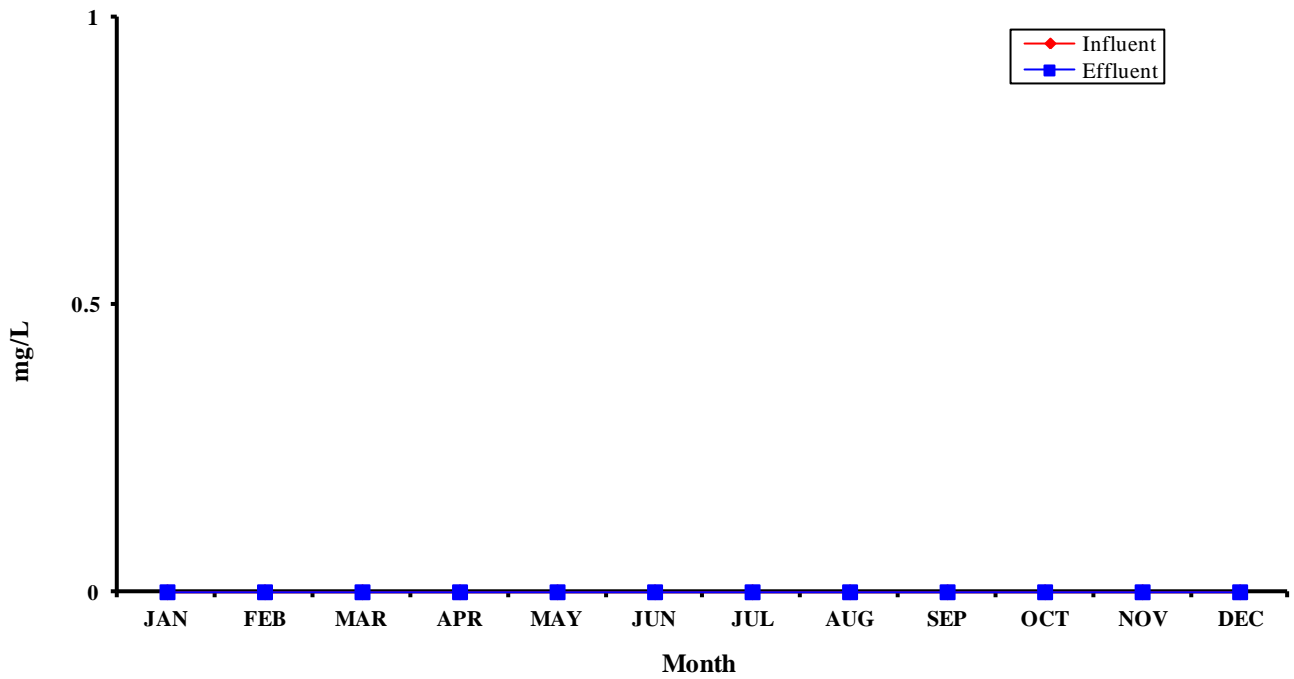
Settleable Solids (mL/L) 2011 Monthly Averages



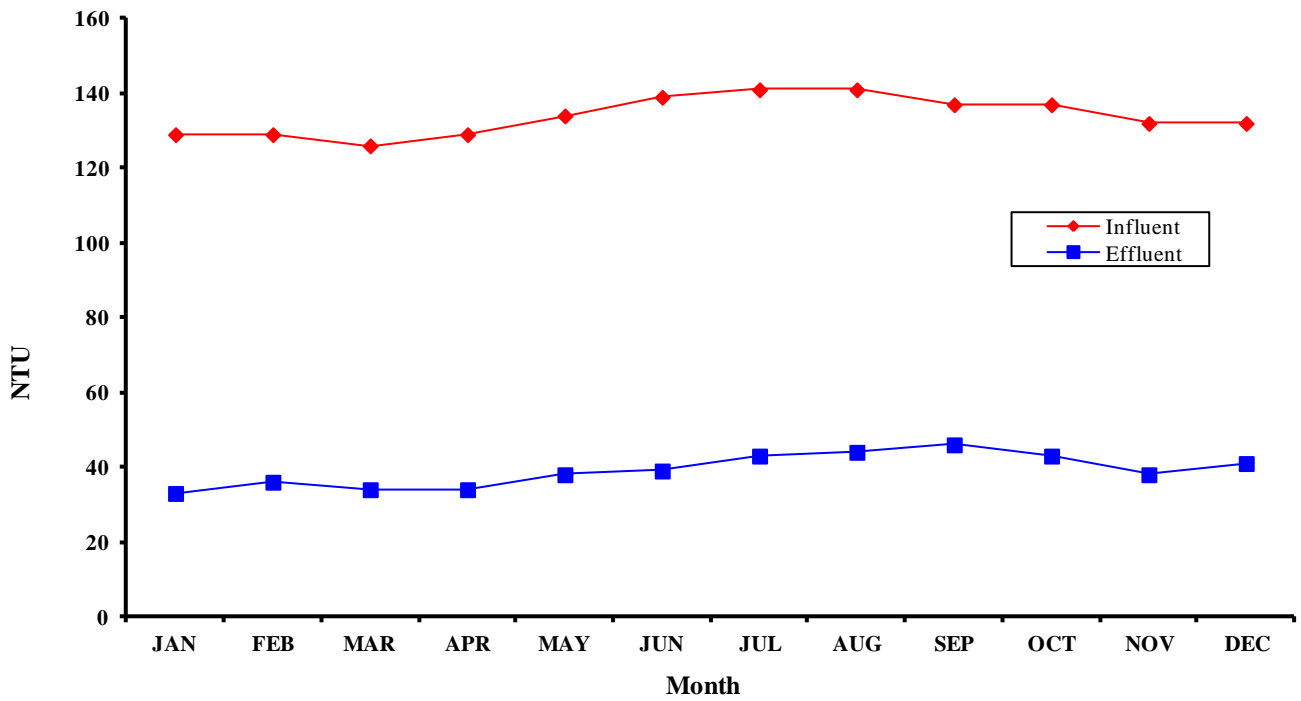
Hexane Extractable Material (mg/L) 2011 Monthly Averages



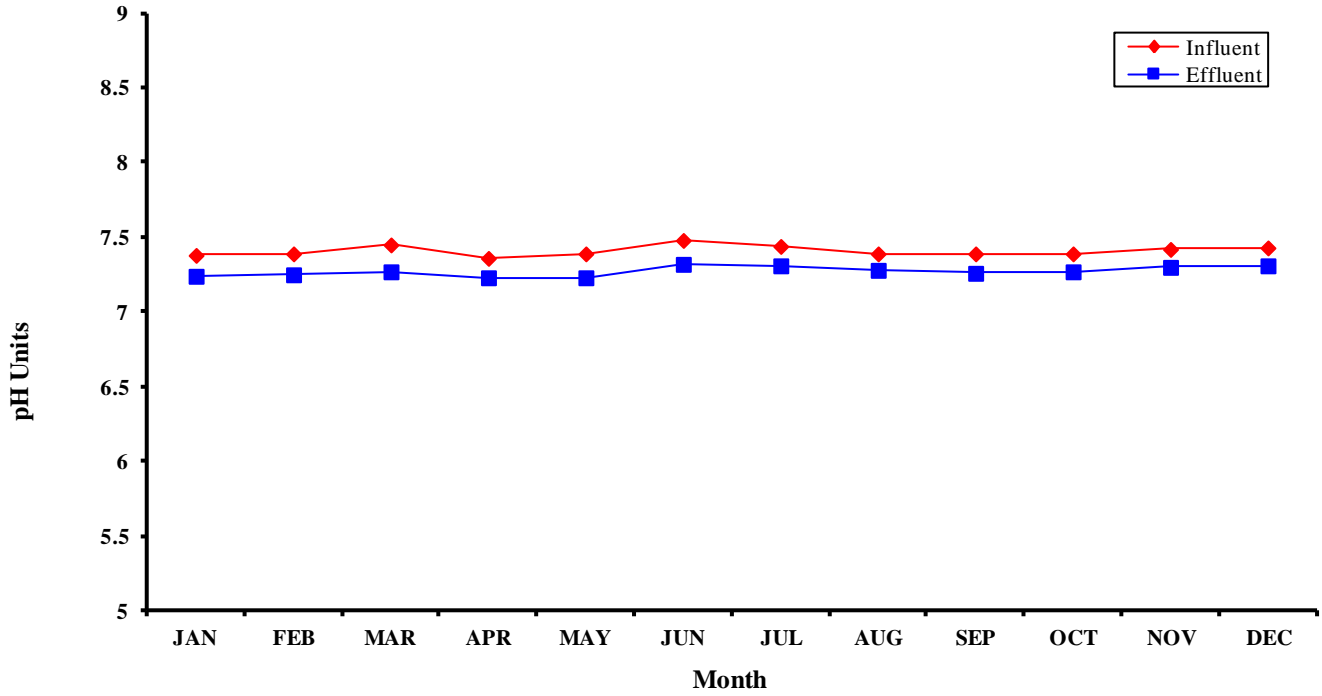
Floatables (mg/L) 2011 Monthly Averages



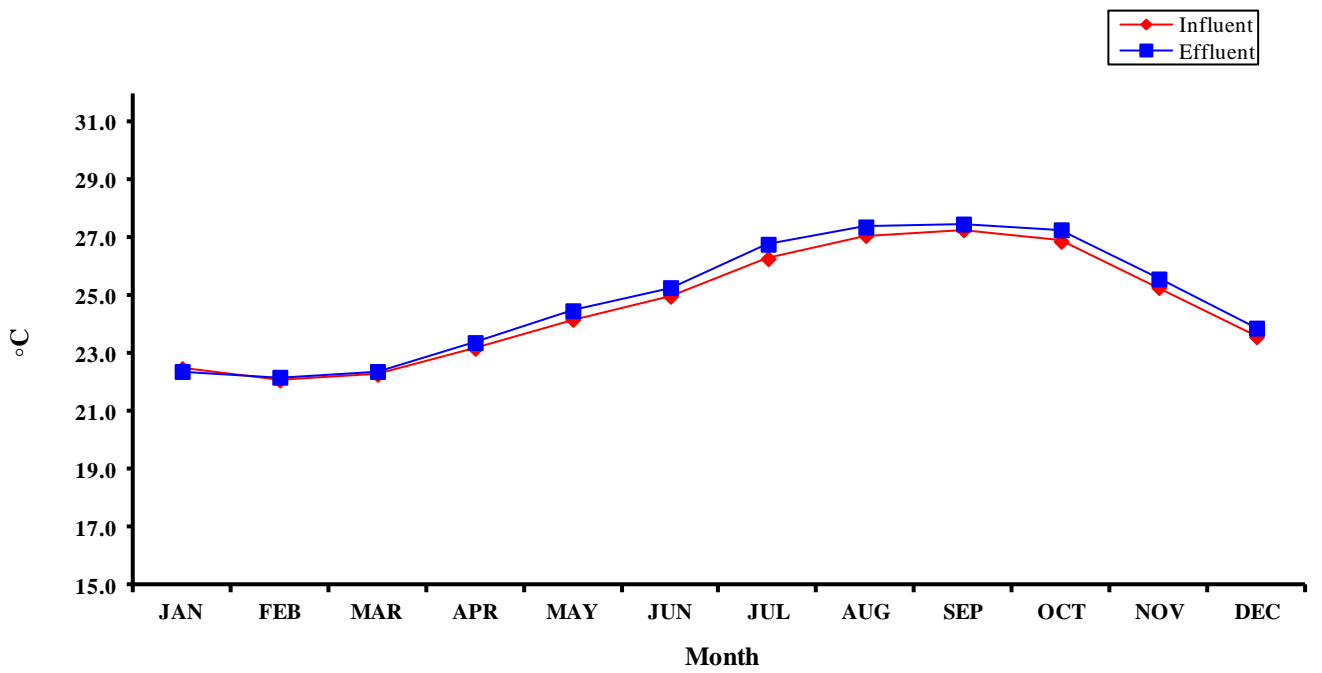
Turbidity (NTU) 2011 Monthly Averages



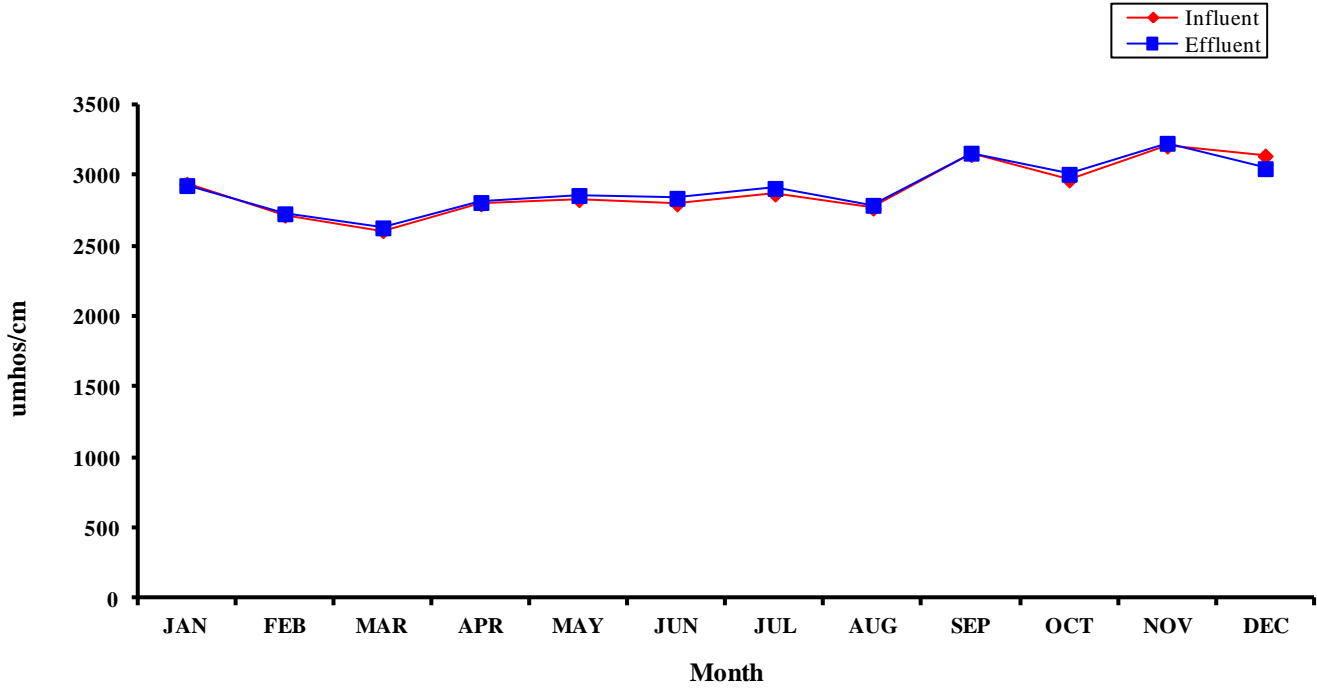
pH 2011 Monthly Averages



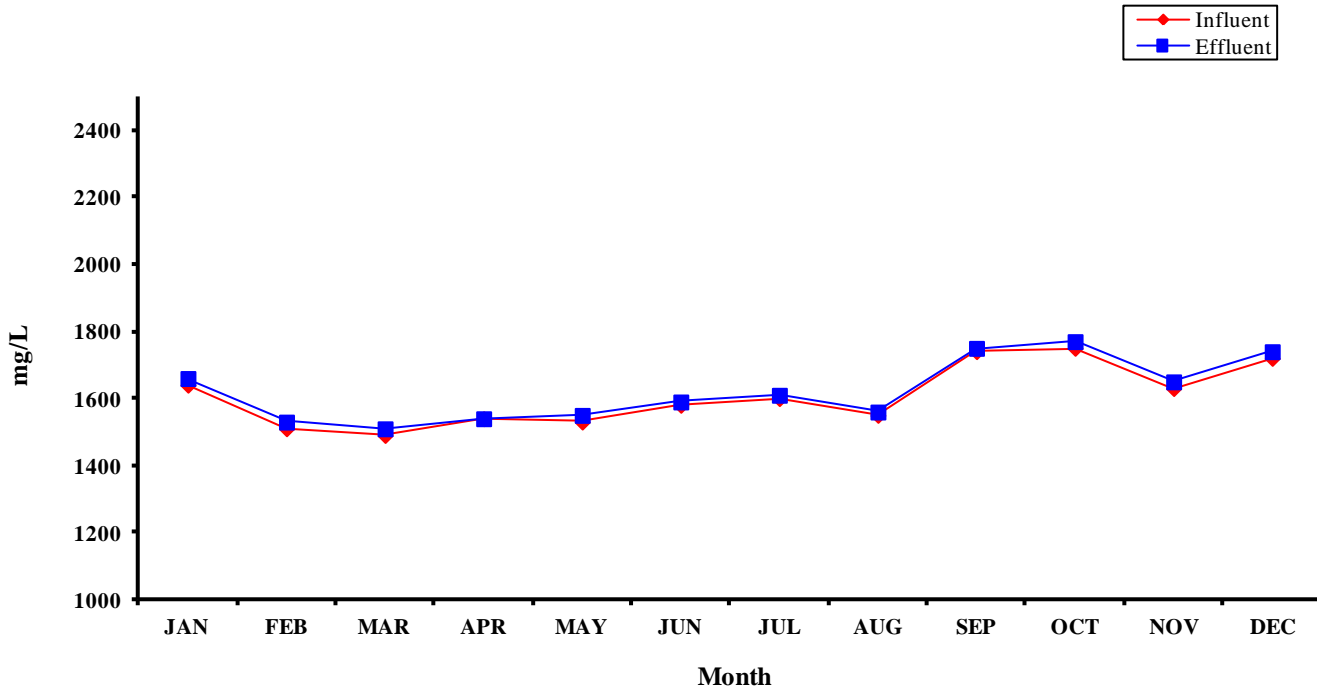
Temperature (°C) 2011 Monthly Averages



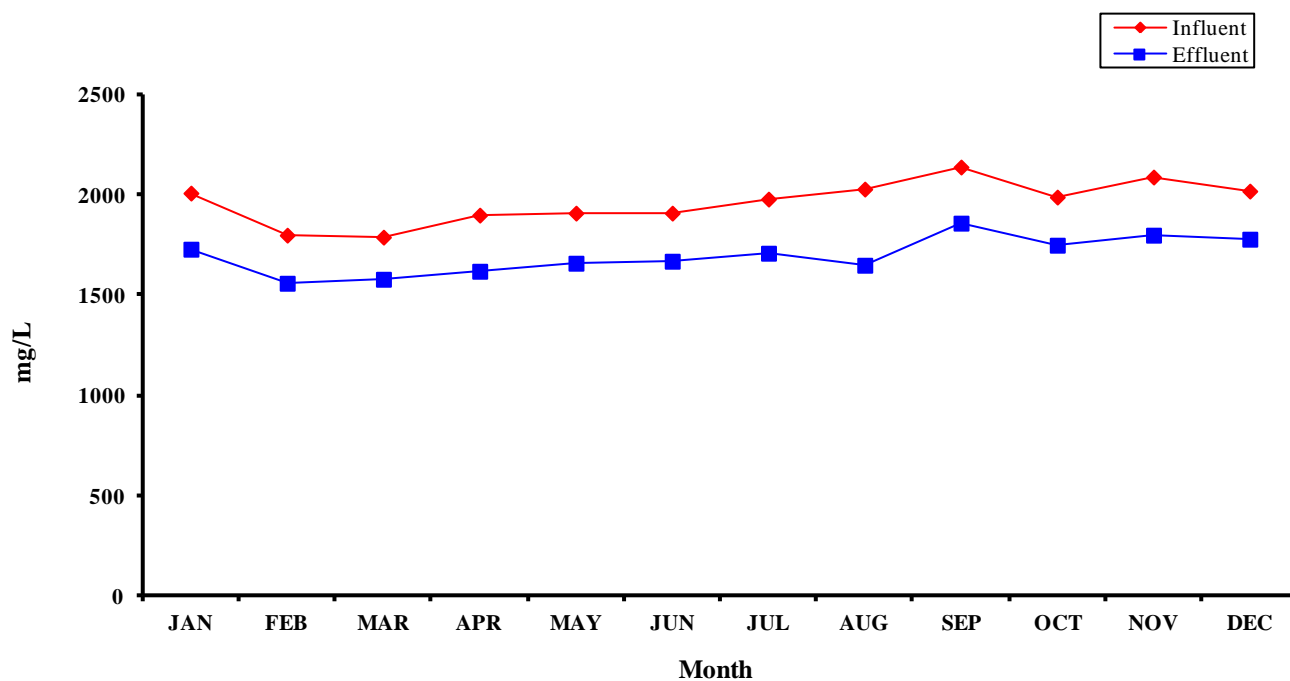
Conductivity (umhos/cm) 2011 Monthly Averages



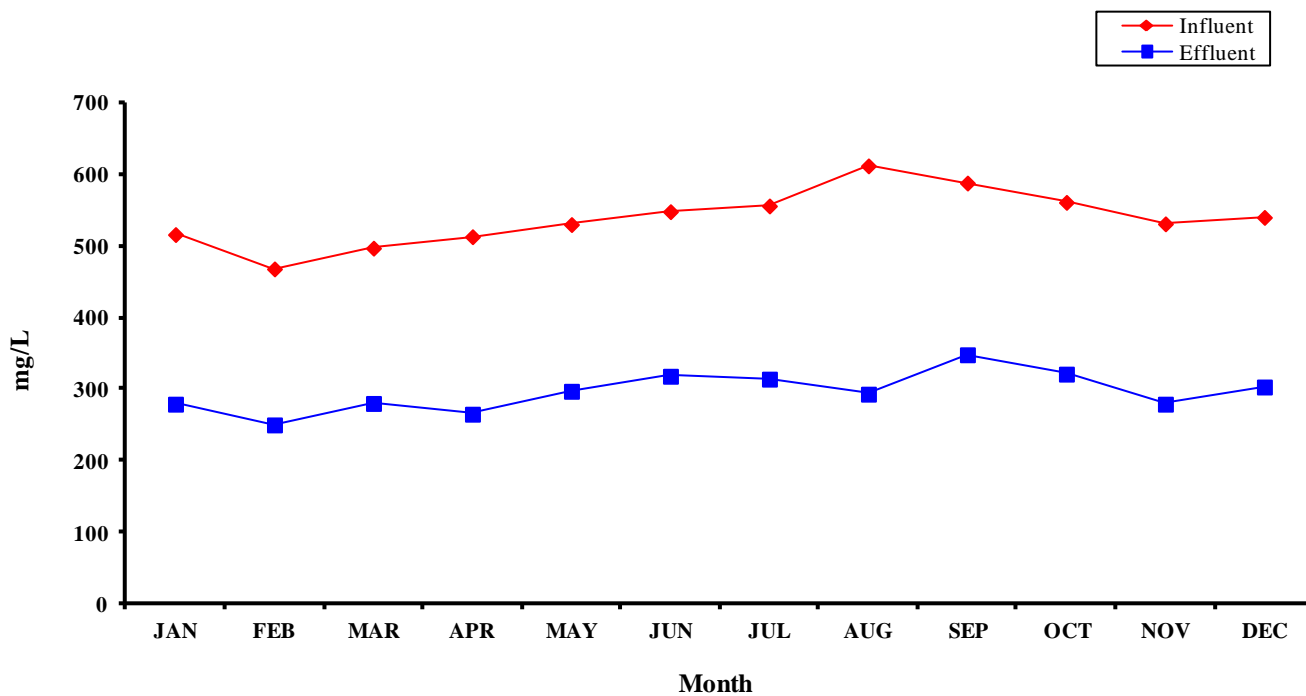
Total Dissolved Solids (mg/L) 2011 Monthly Averages



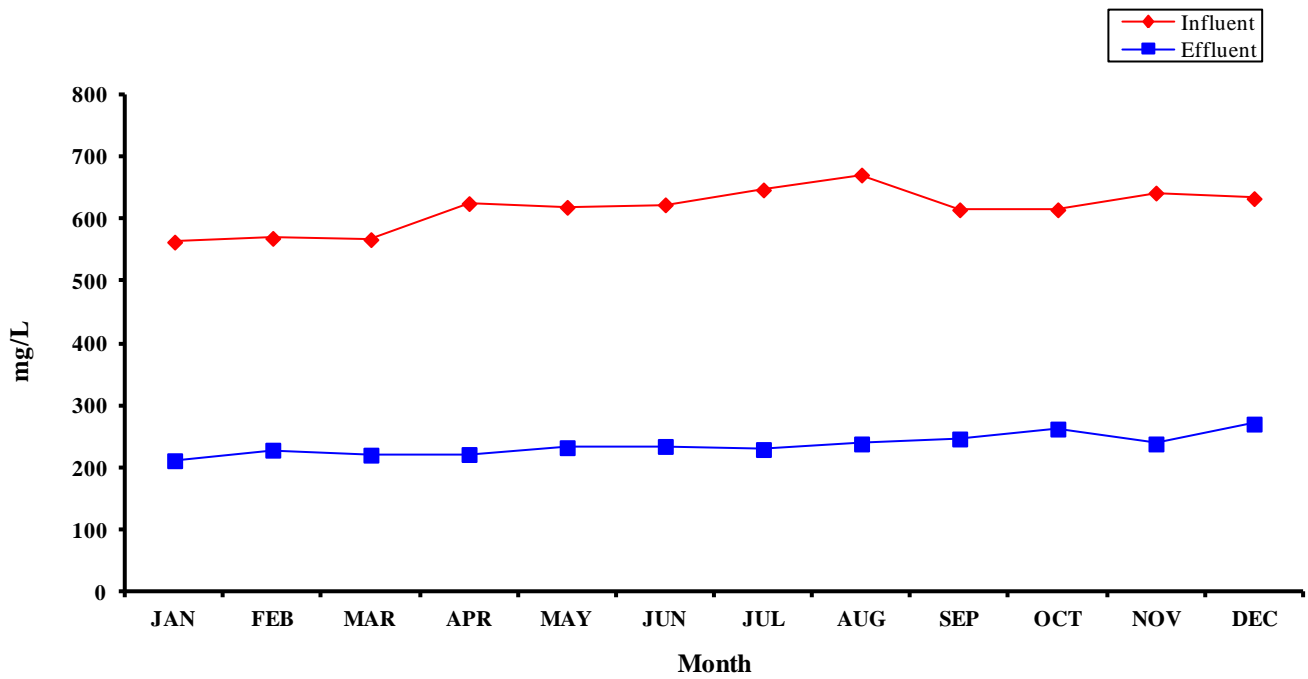
Total Solids (mg/L) 2011 Monthly Averages



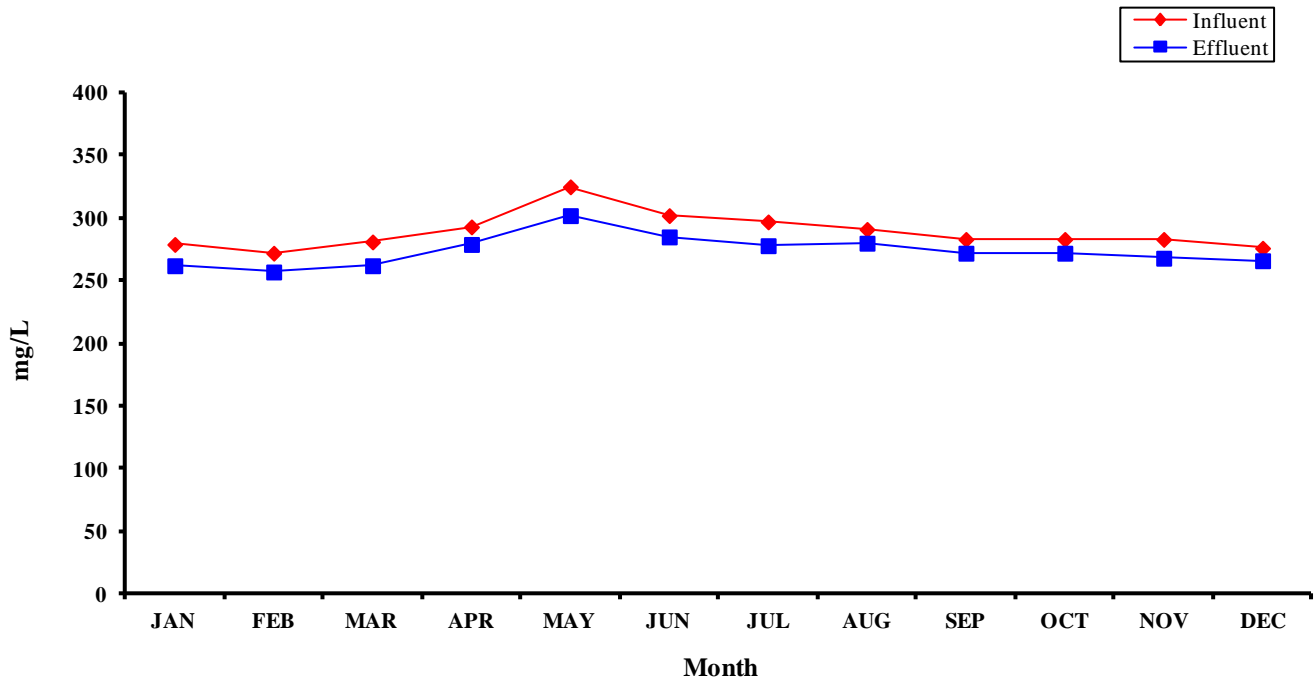
Total Volatile Solids (mg/L) 2011 Monthly Averages



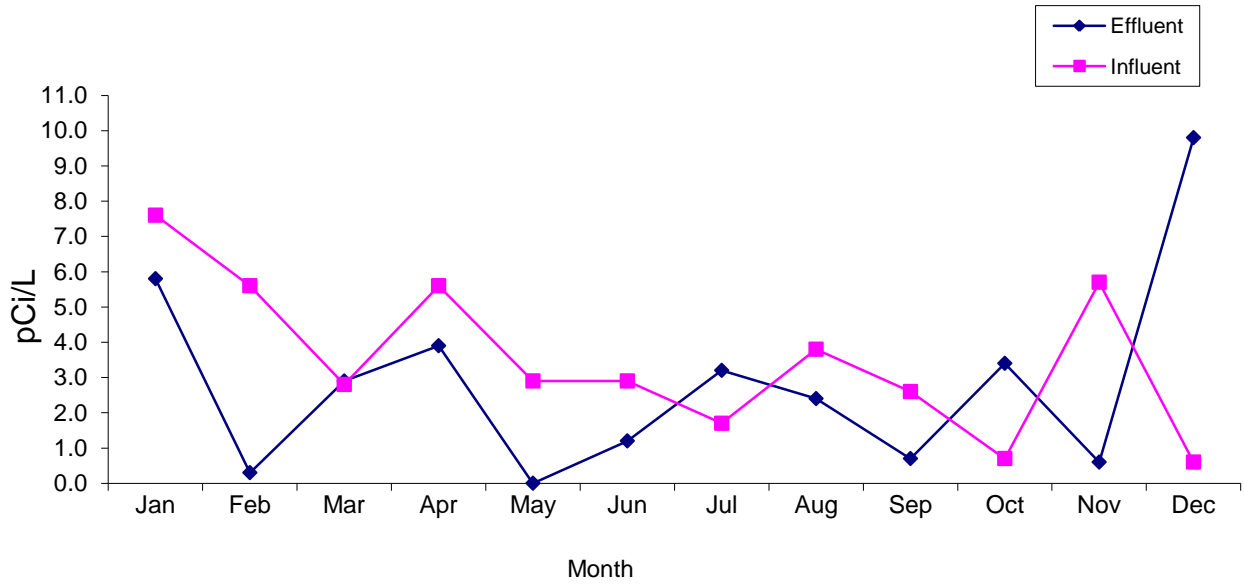
Chemical Oxygen Demand (mg/L) 2011 Monthly Averages



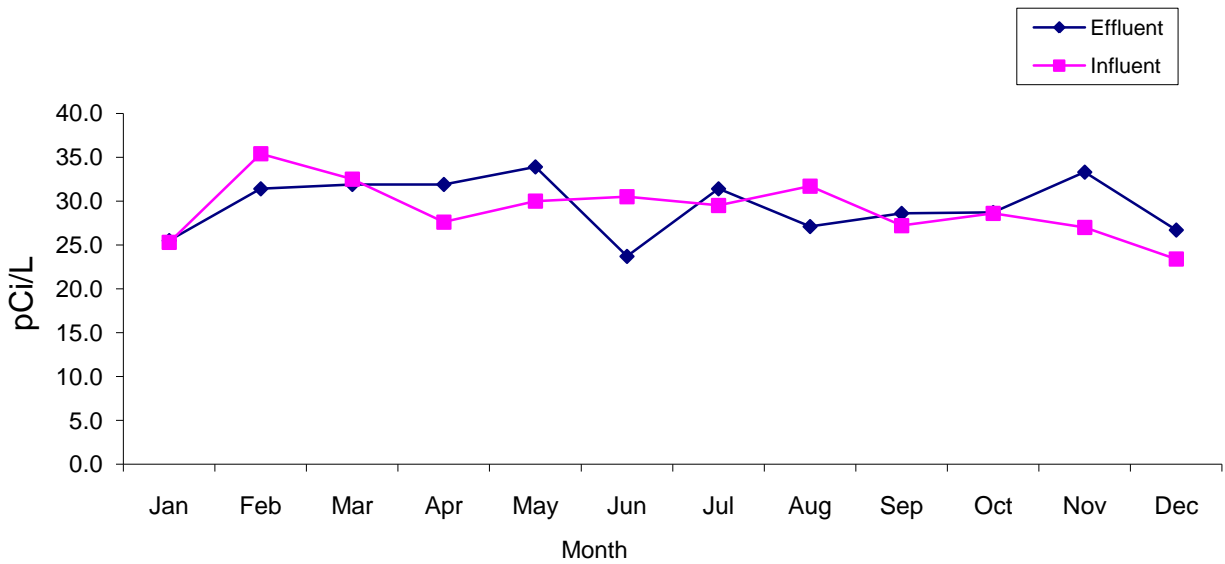
Alkalinity (mg/L) 2011 Monthly Averages



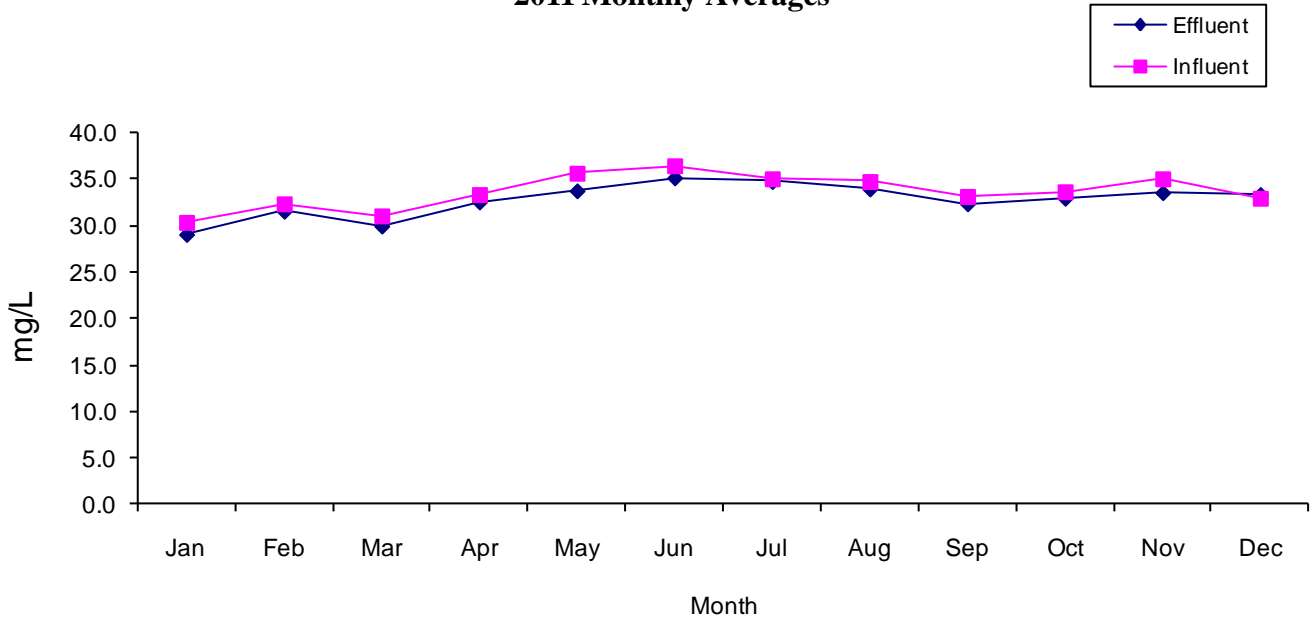
Alpha Radiation 2011 Monthly Averages



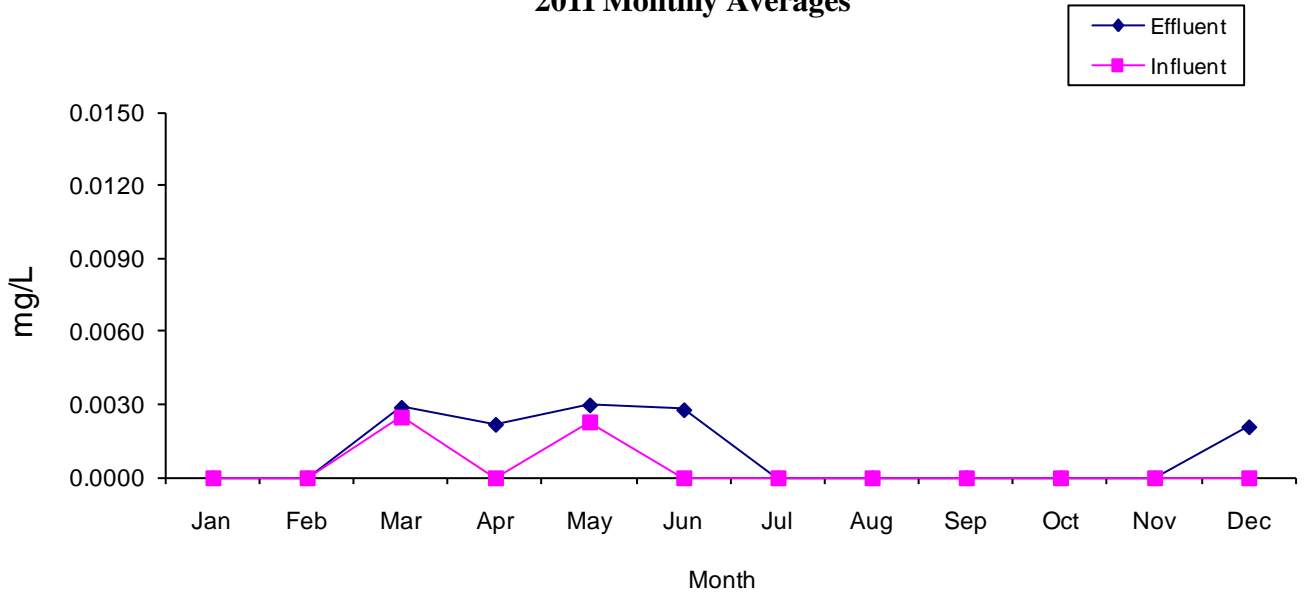
Beta Radiation 2011 Monthly Averages



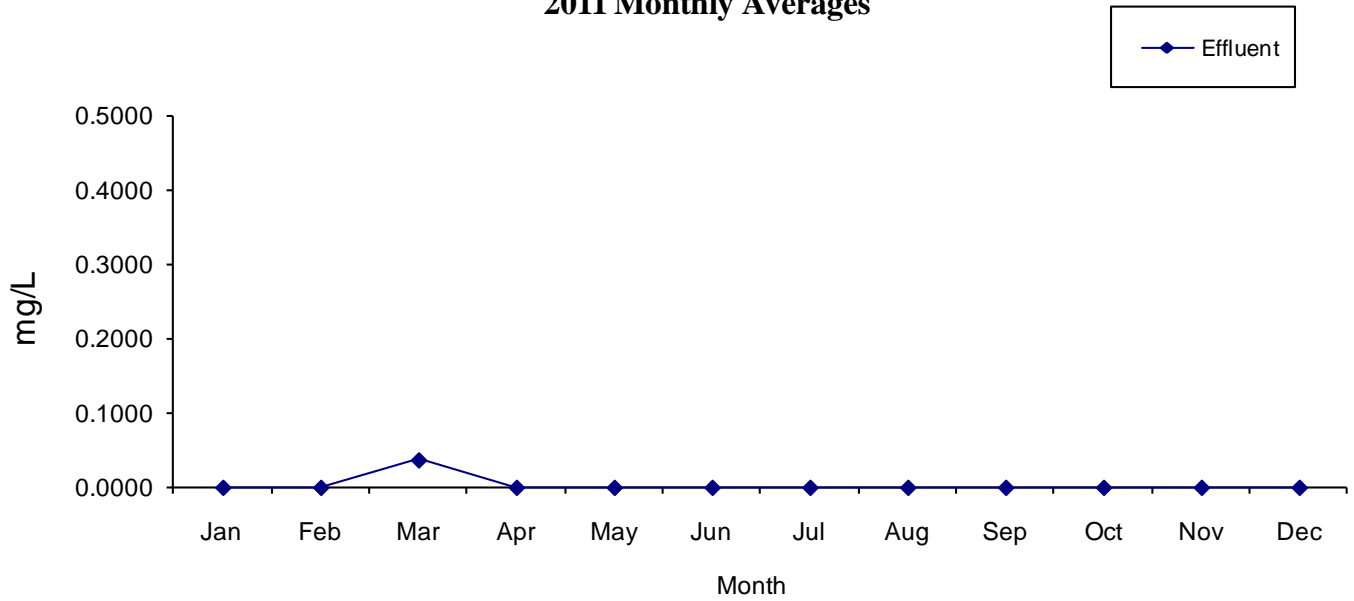
**Ammonia-N
2011 Monthly Averages**



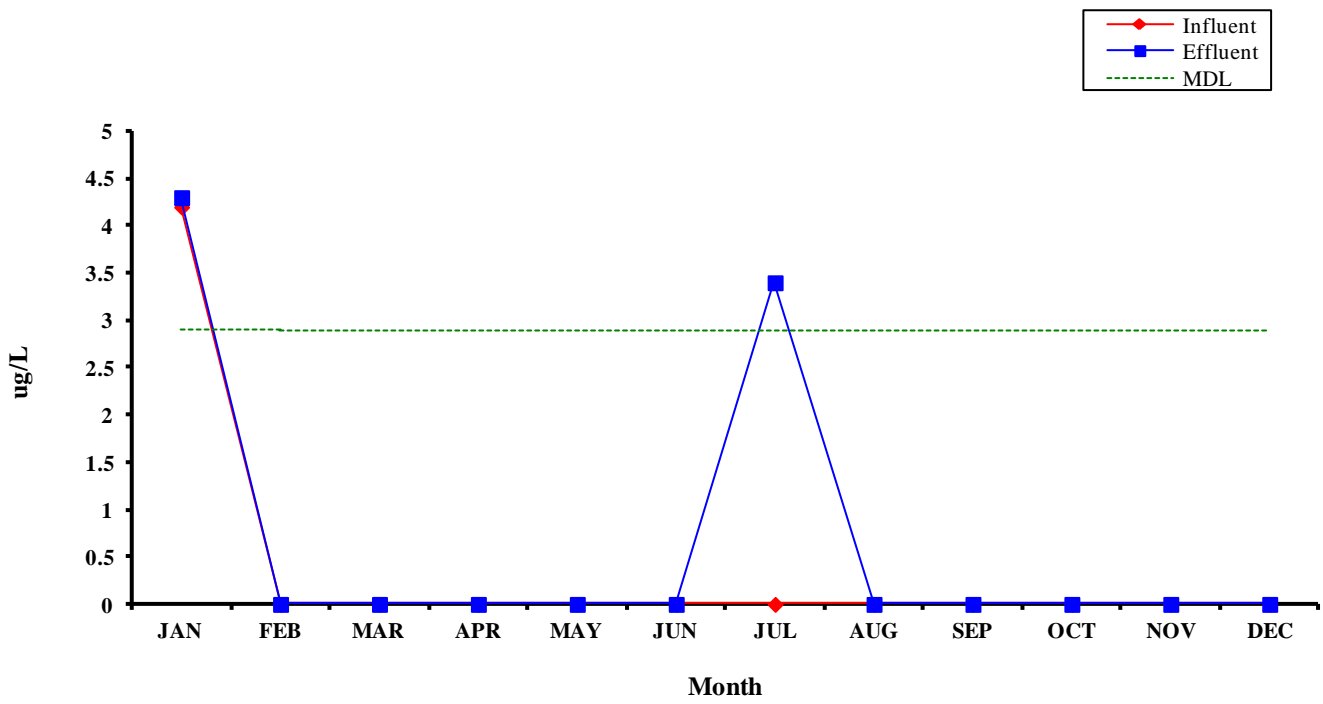
**Total Cyanides
2011 Monthly Averages**



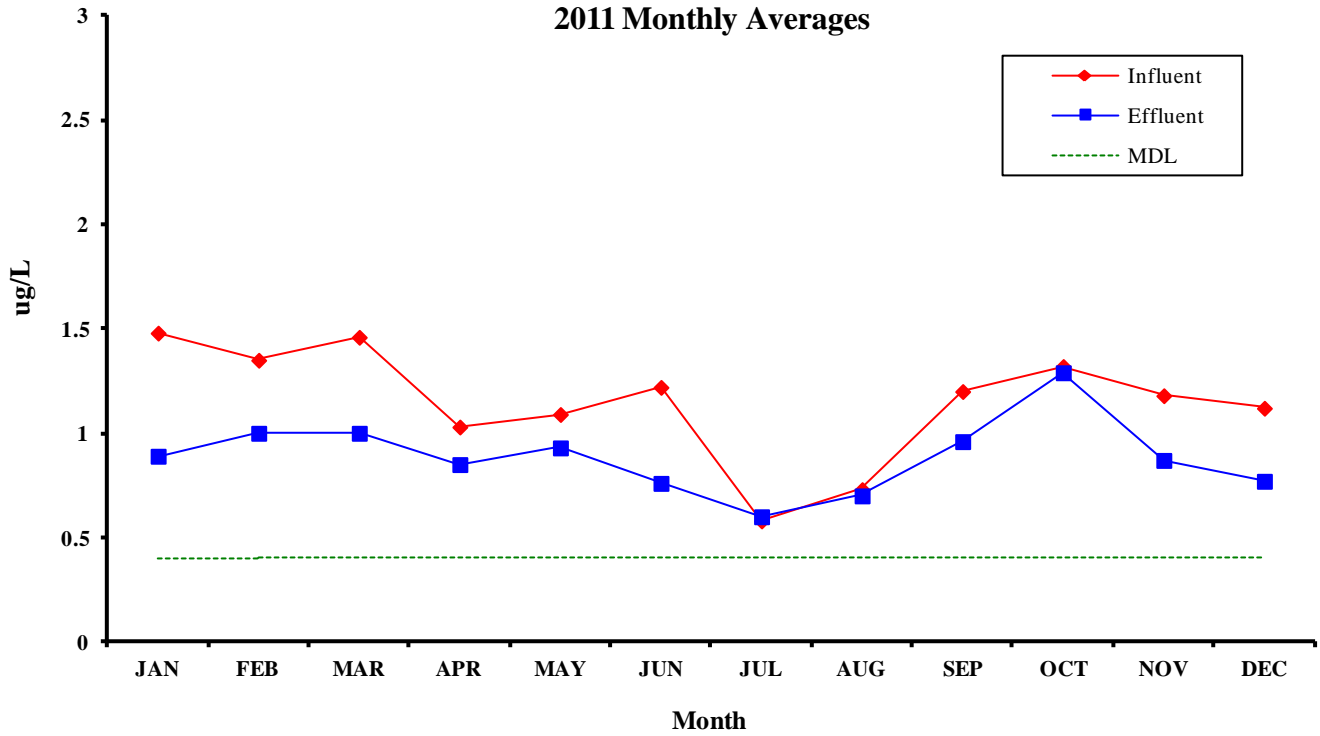
**Total Residual Chlorine
2011 Monthly Averages**



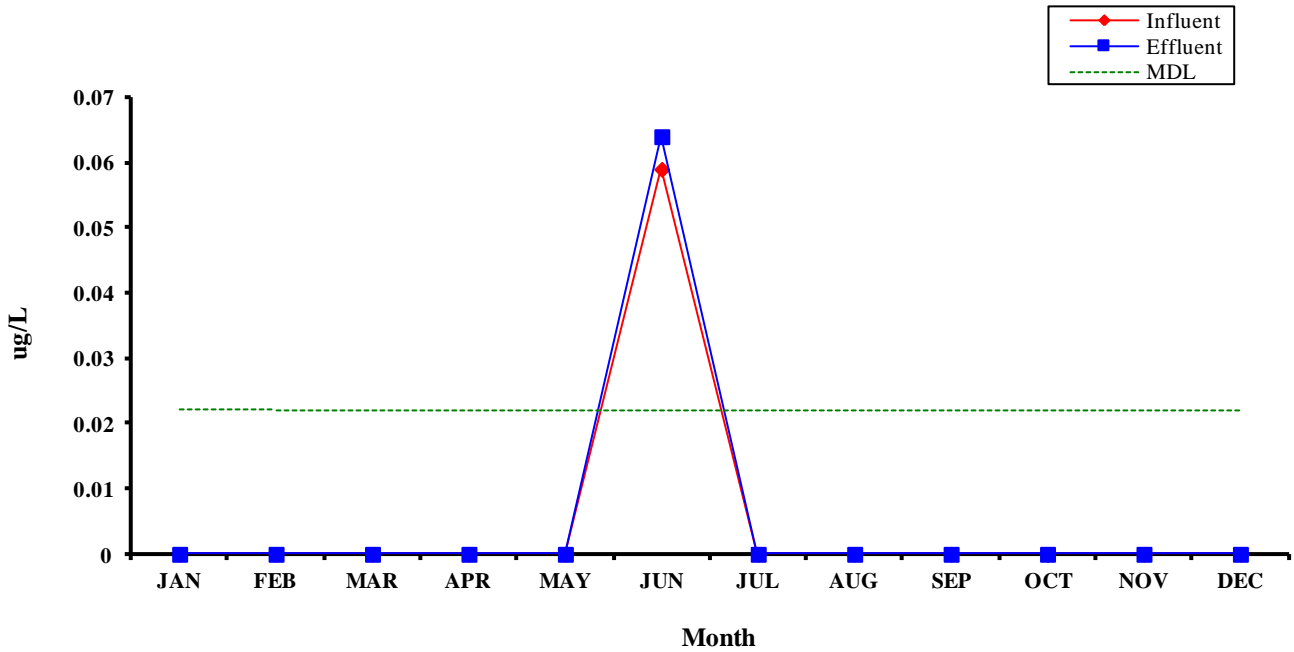
**Antimony
2011 Monthly Averages**



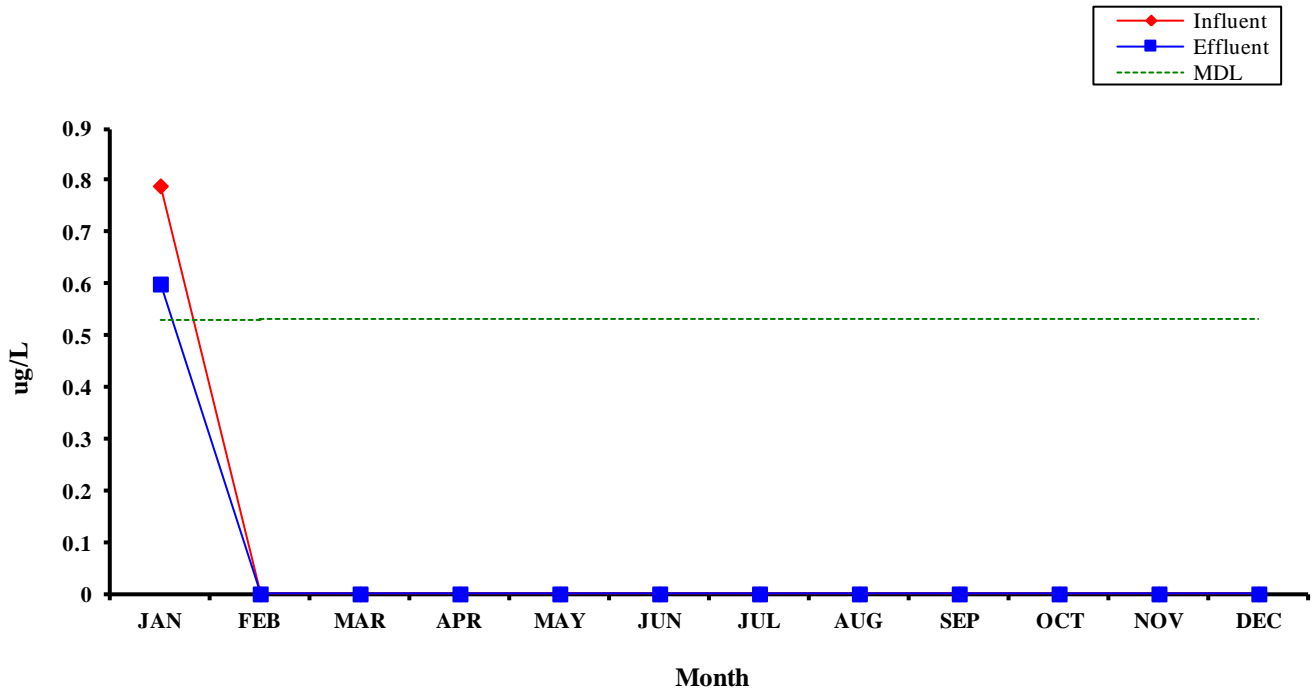
Arsenic 2011 Monthly Averages



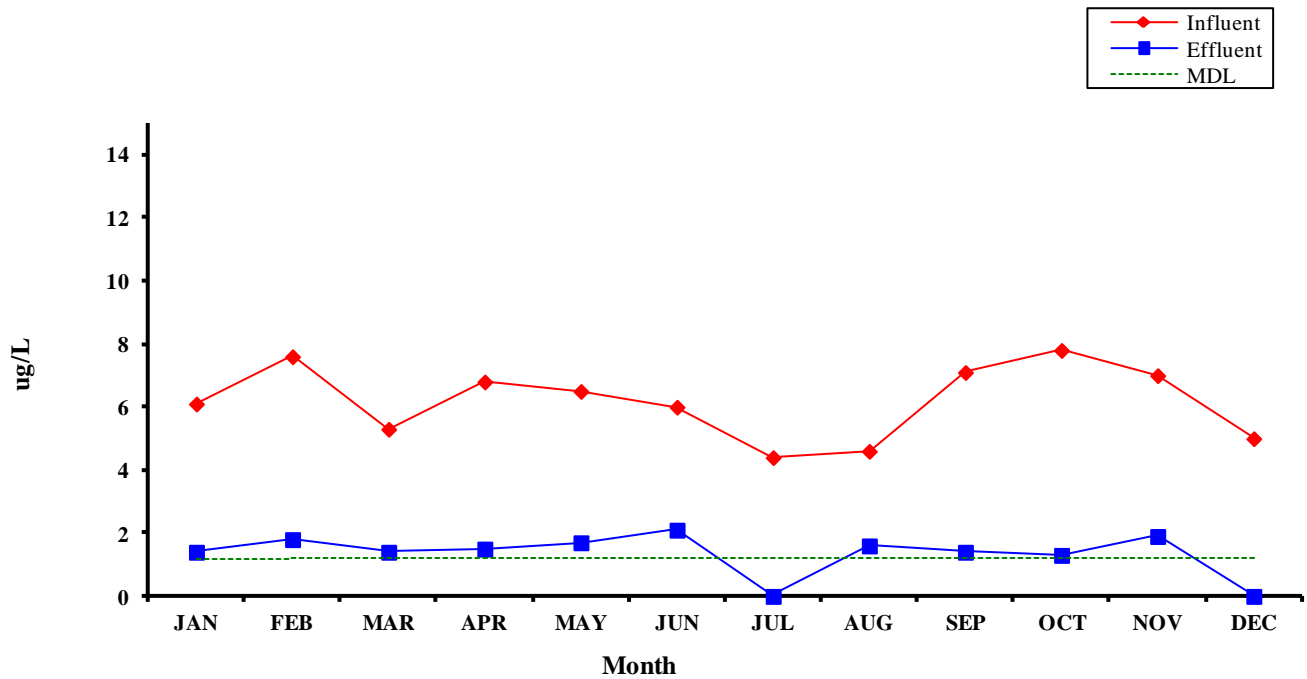
Beryllium 2011 Monthly Averages



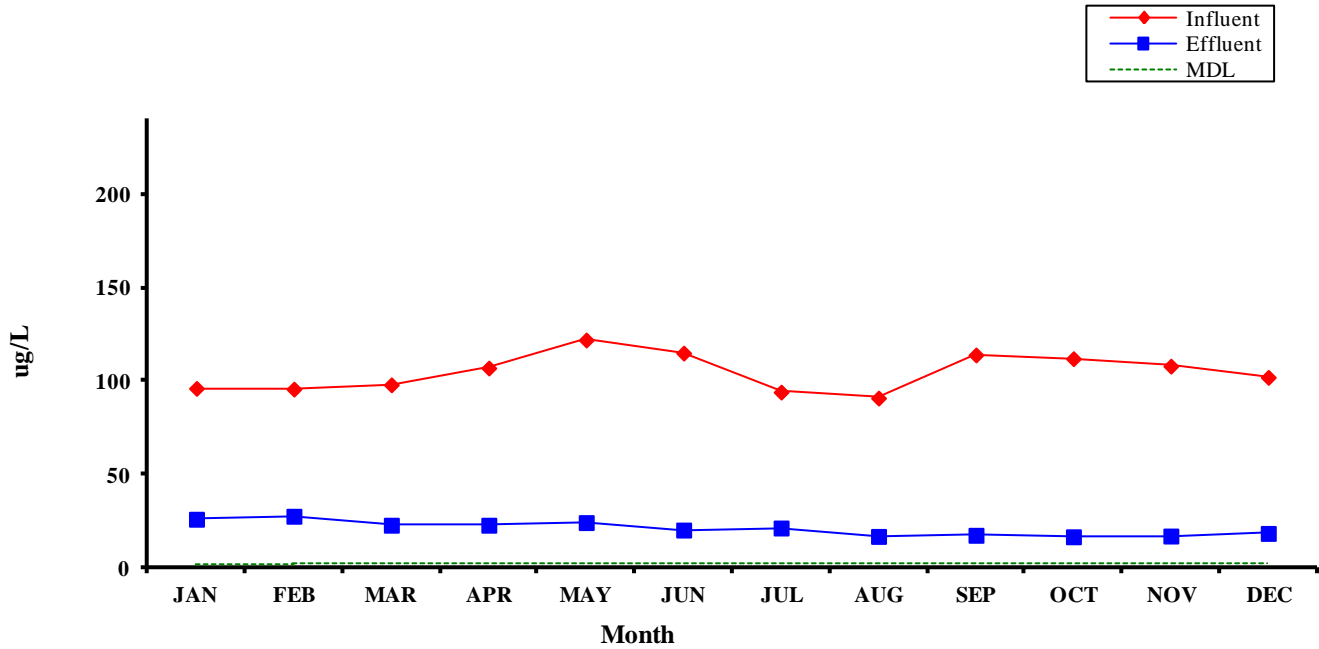
Cadmium 2011 Monthly Averages



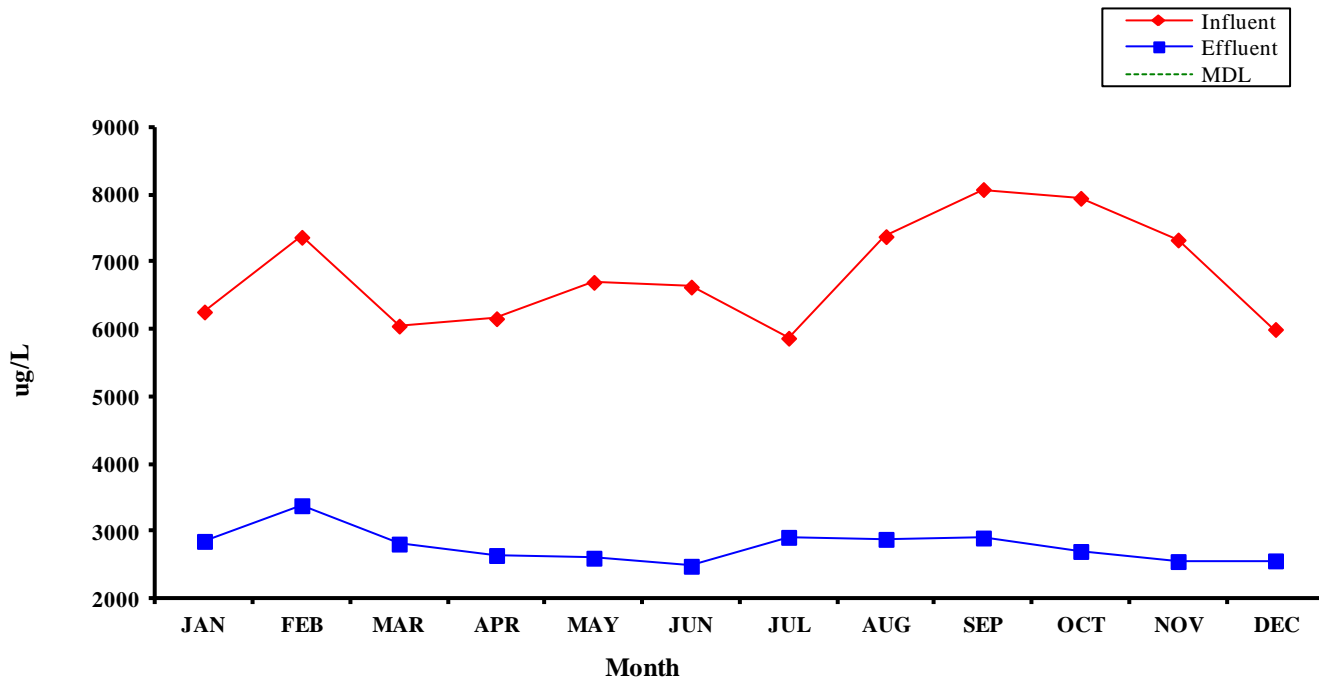
Chromium 2011 Monthly Averages



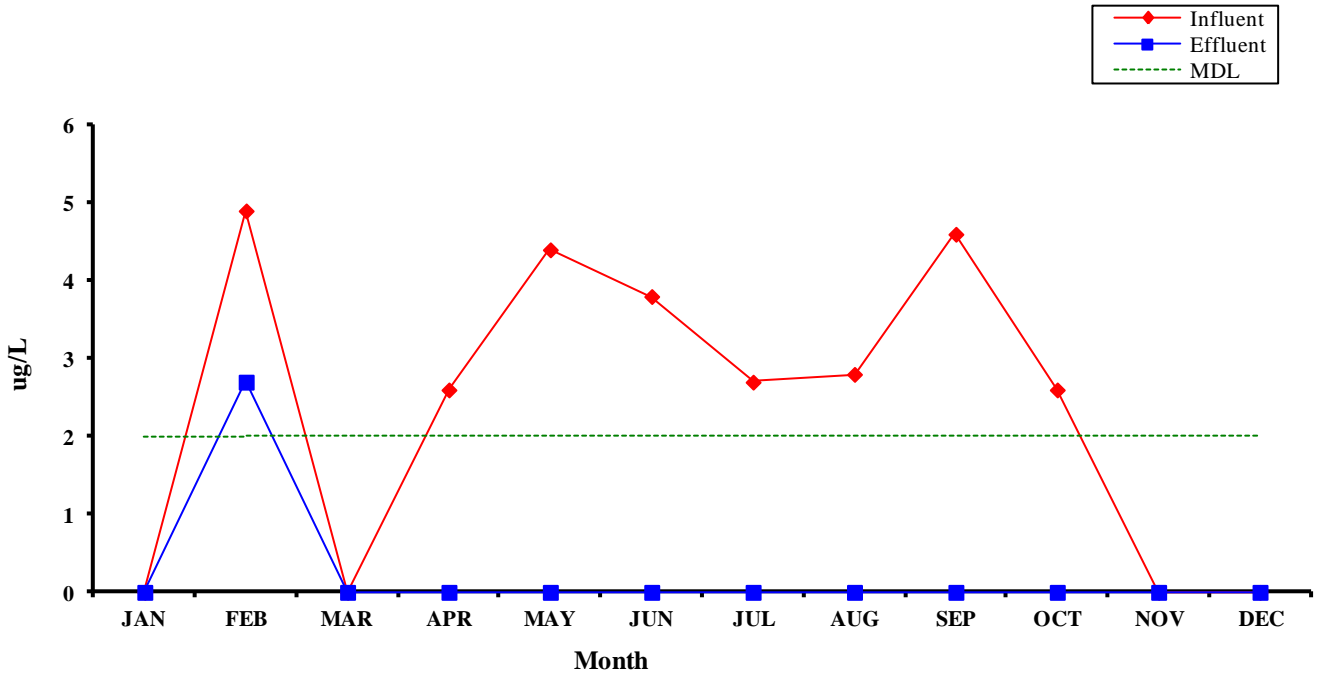
Copper 2011 Monthly Averages



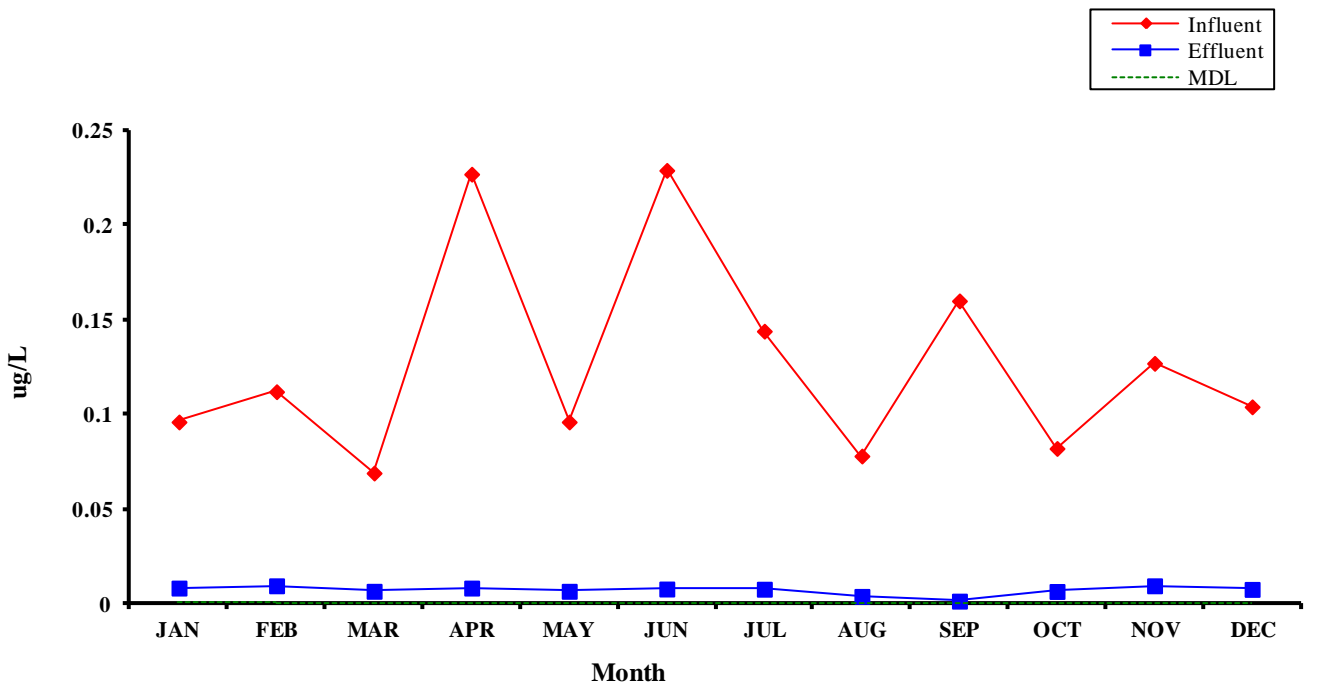
Iron 2011 Monthly Averages



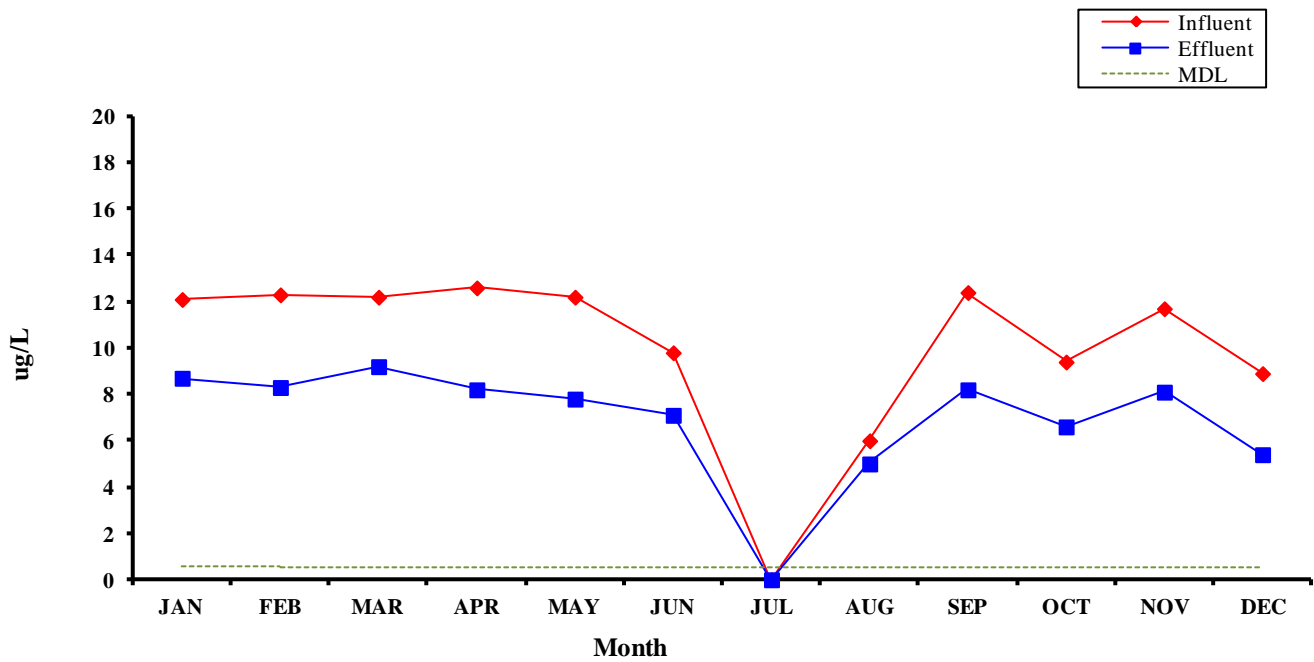
Lead 2011 Monthly Averages



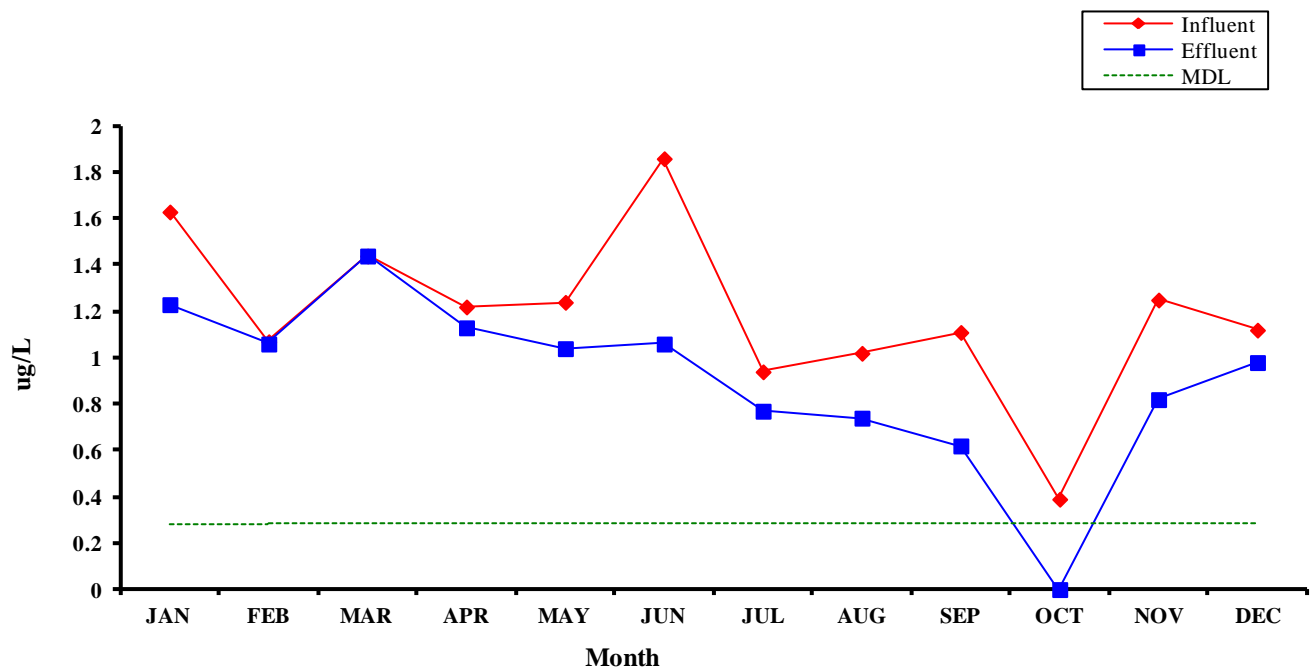
Mercury 2011 Monthly Averages



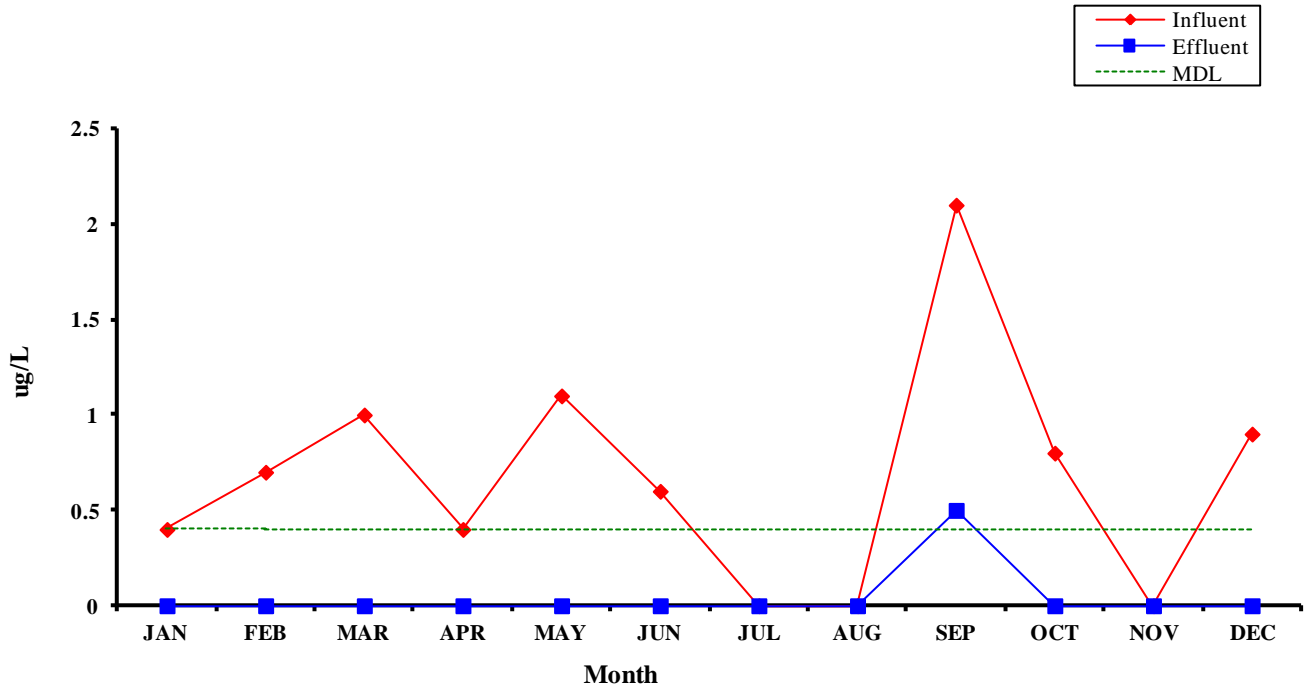
Nickel 2011 Monthly Averages



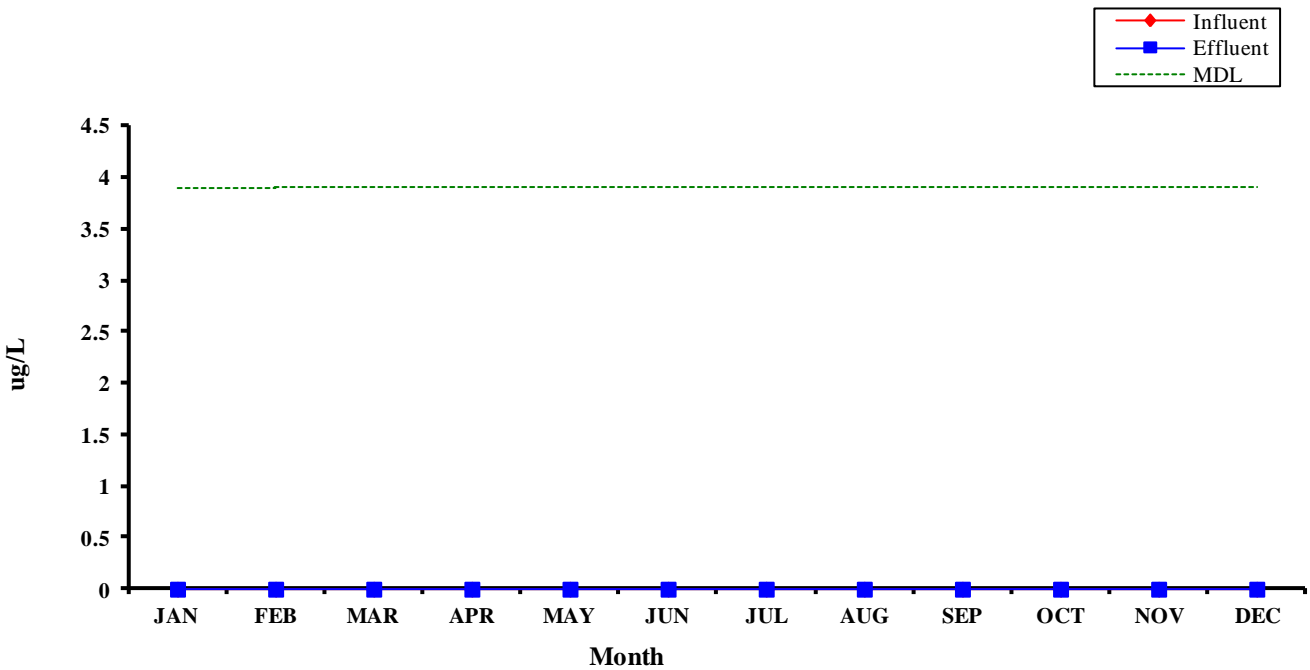
Selenium 2011 Monthly Averages



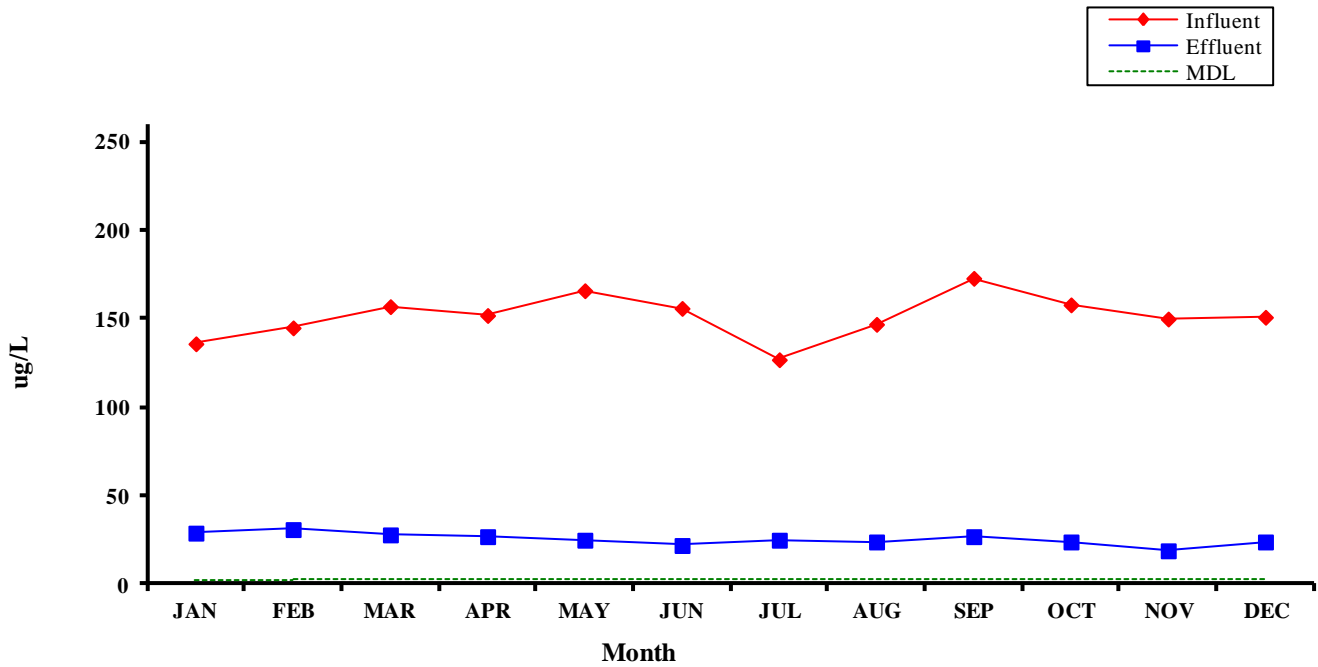
Silver 2011 Monthly Averages



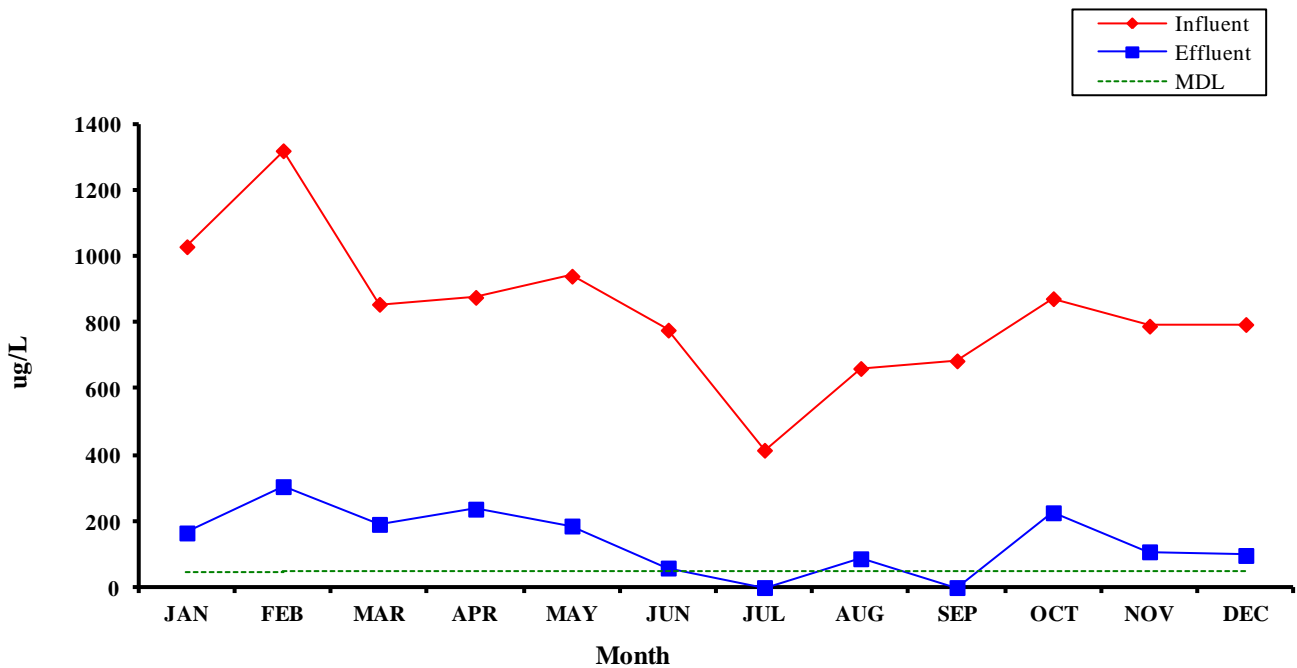
Thallium 2011 Monthly Averages



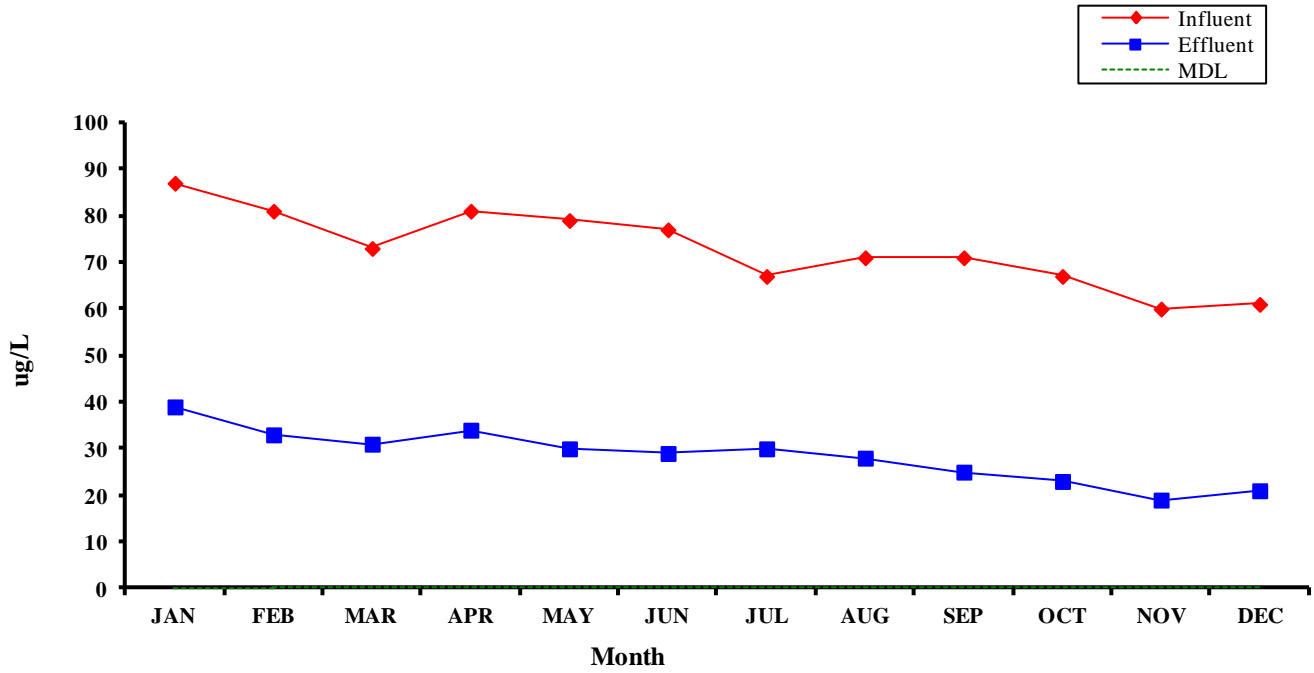
Zinc 2011 Monthly Averages



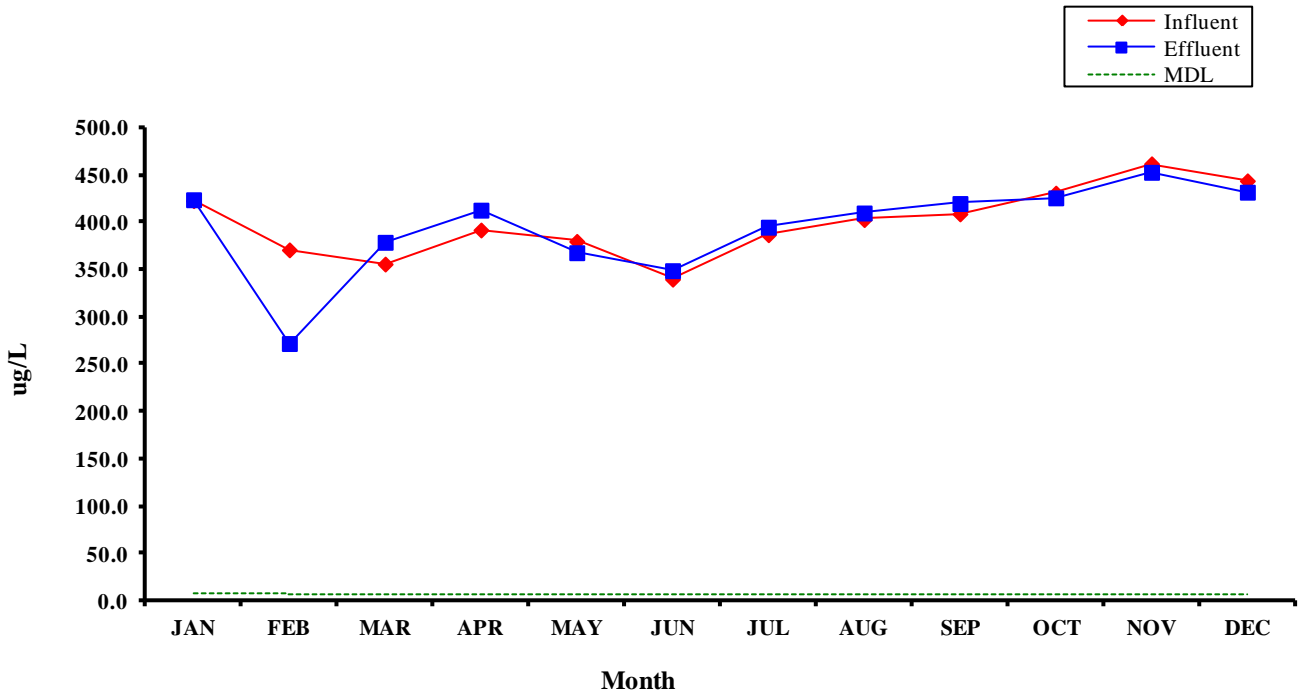
Aluminum 2011 Monthly Averages



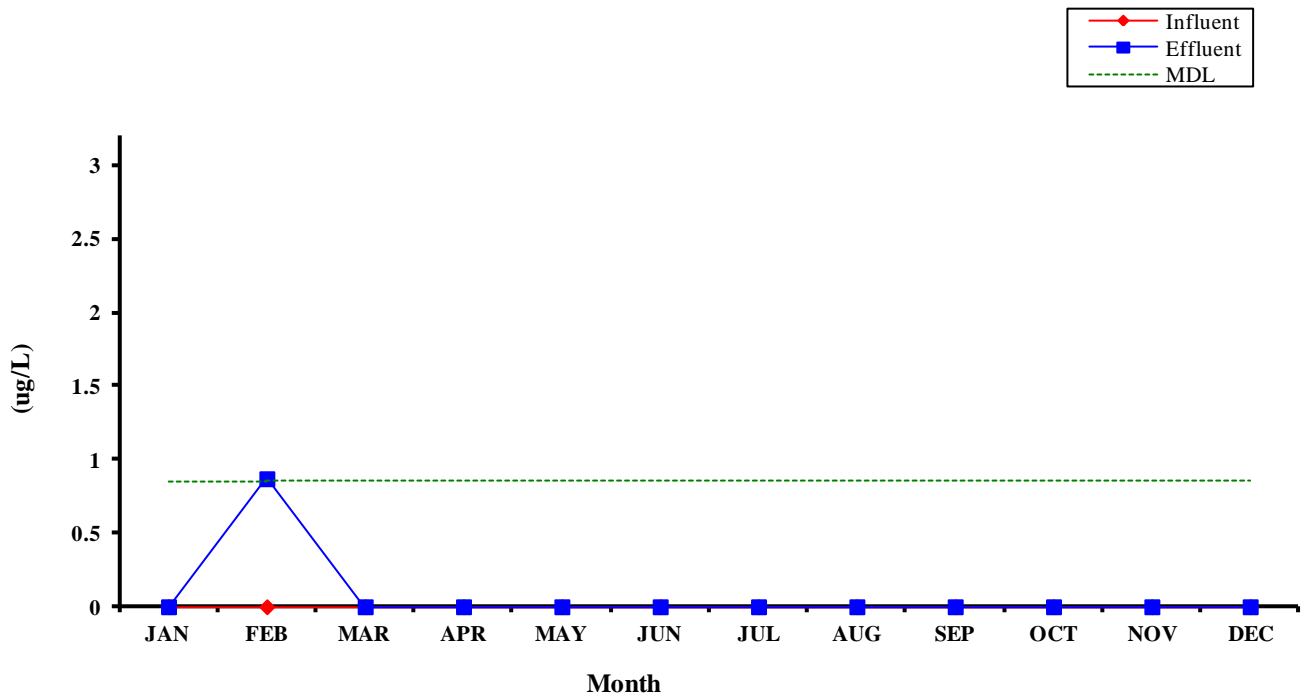
Barium 2011 Monthly Averages



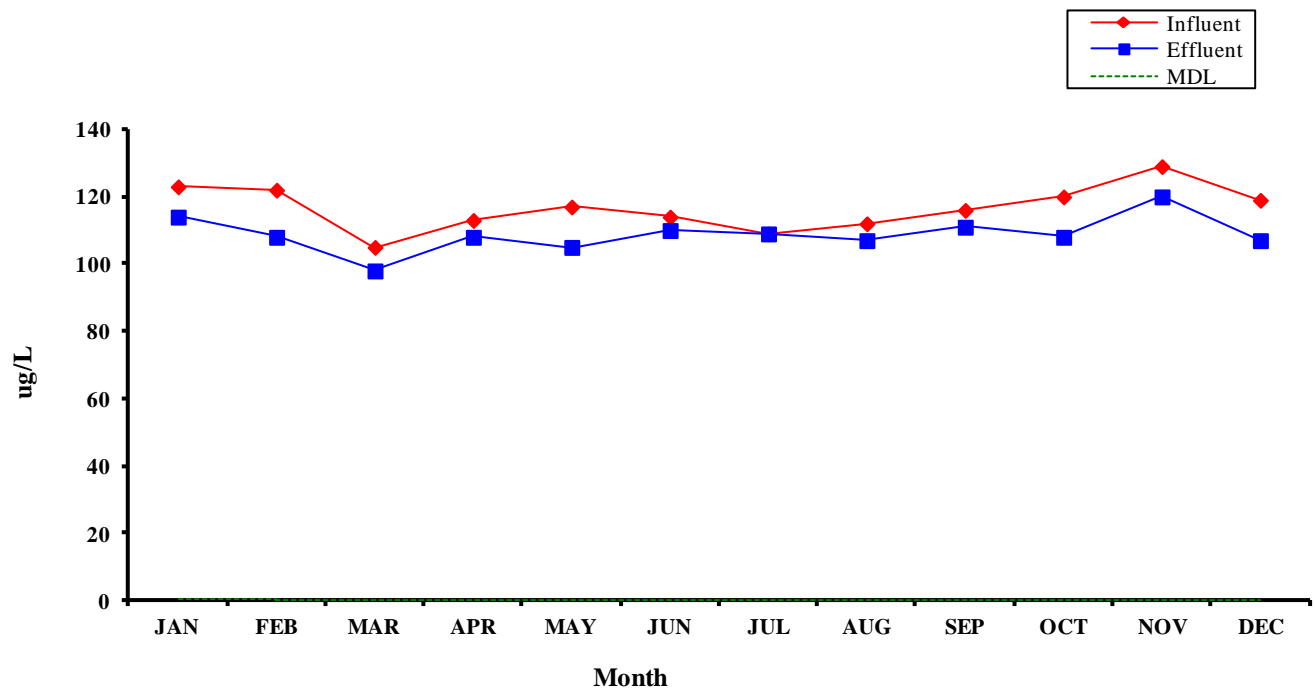
Boron 2011 Monthly Averages



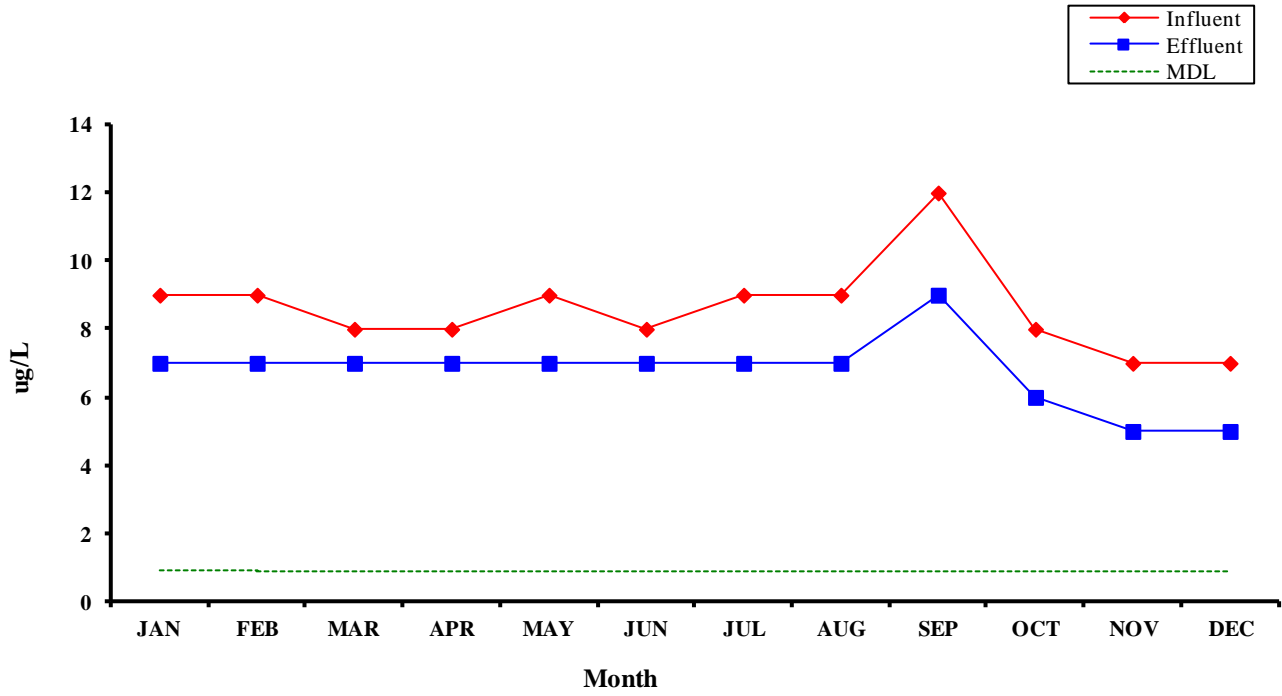
Cobalt 2011 Monthly Averages



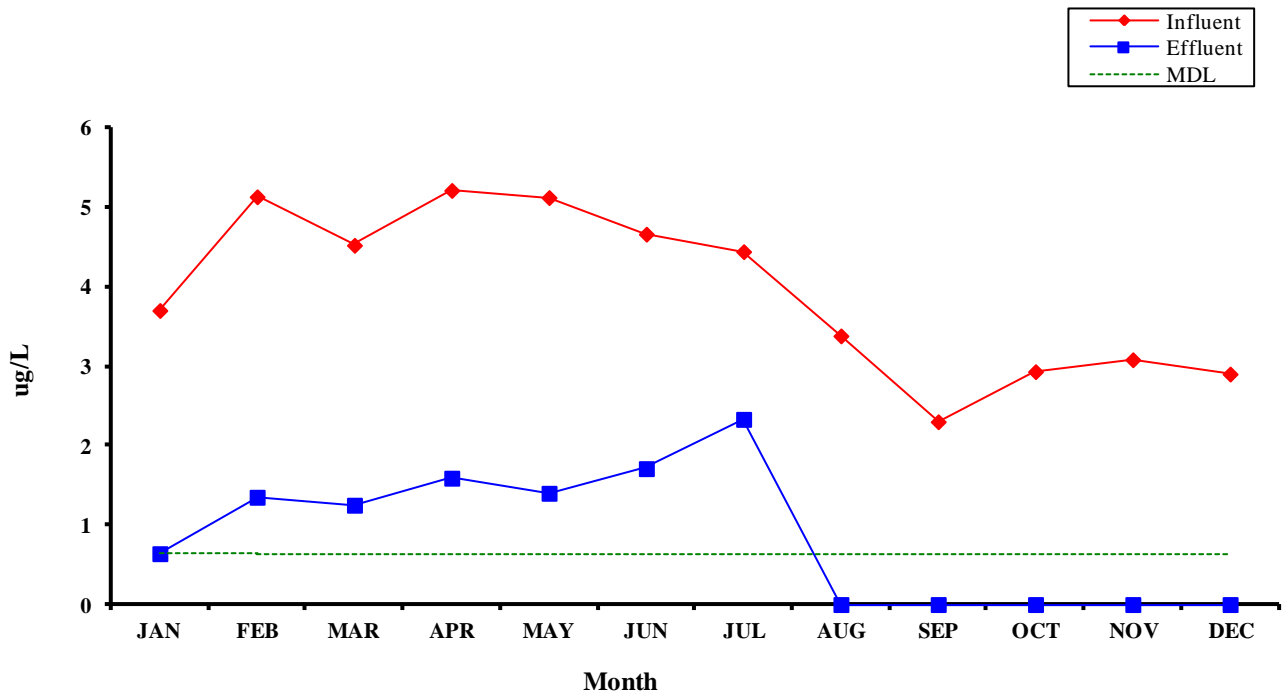
Manganese 2011 Monthly Averages



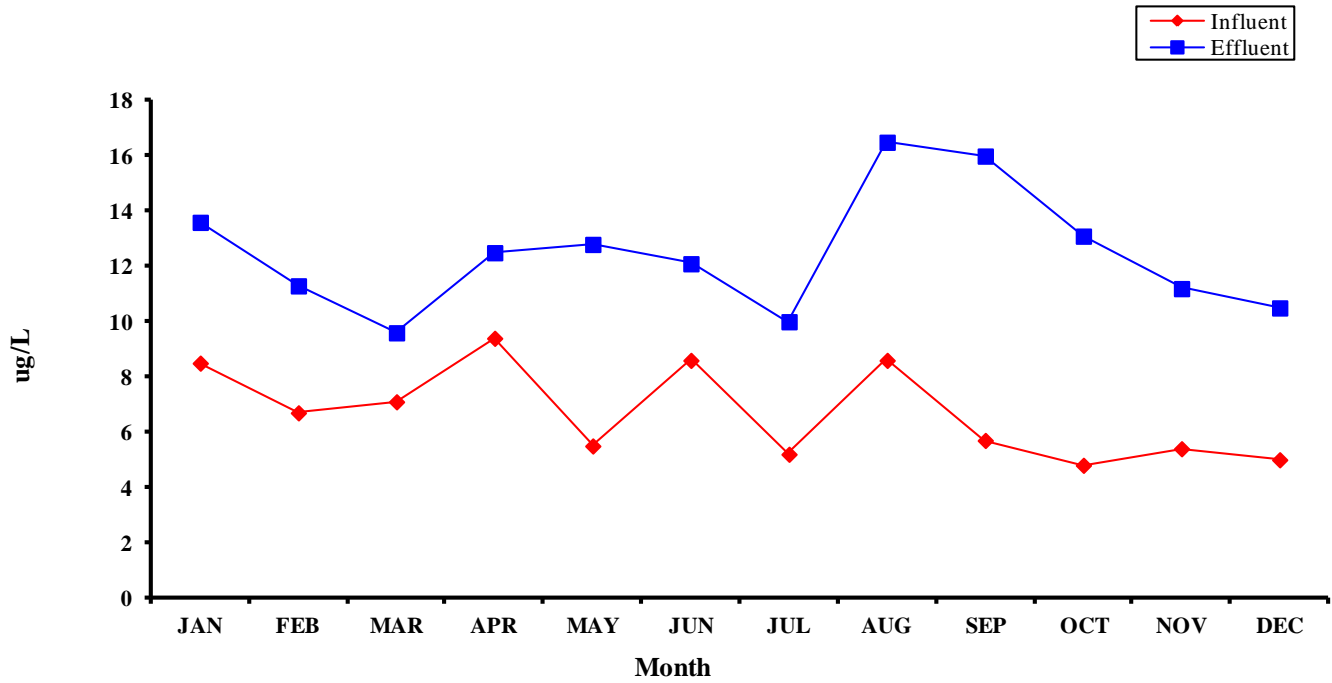
Molybdenum 2011 Monthly Averages



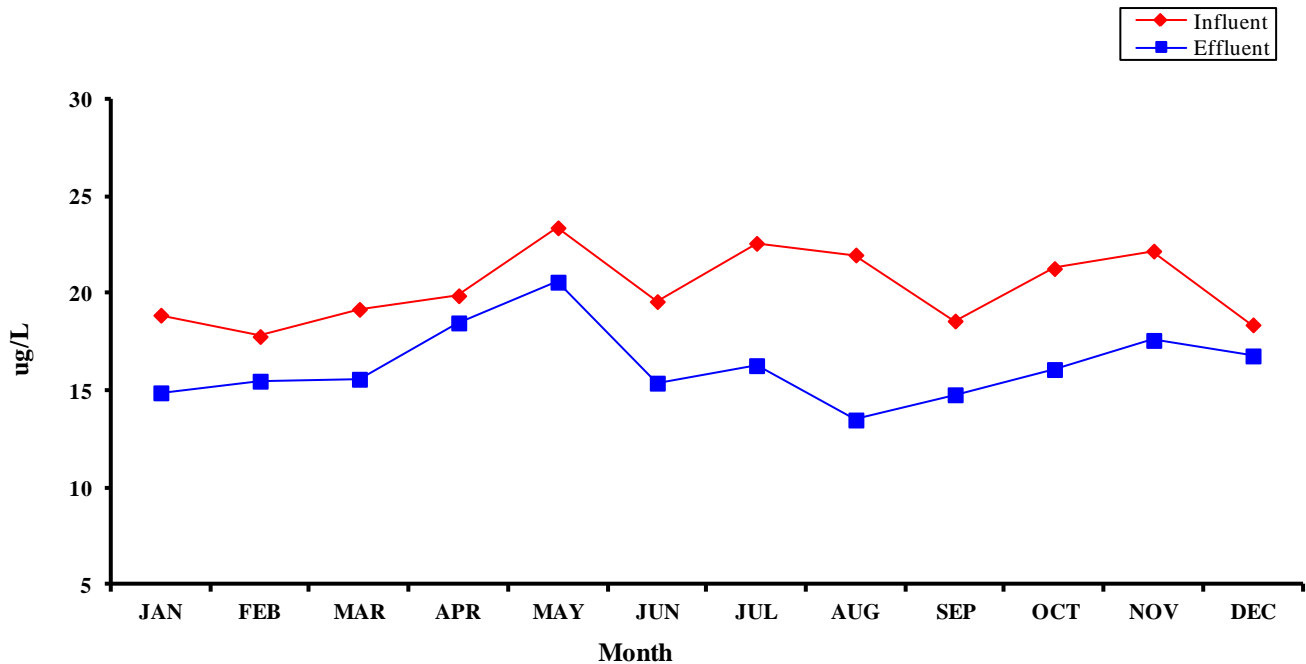
Vanadium 2011 Monthly Average



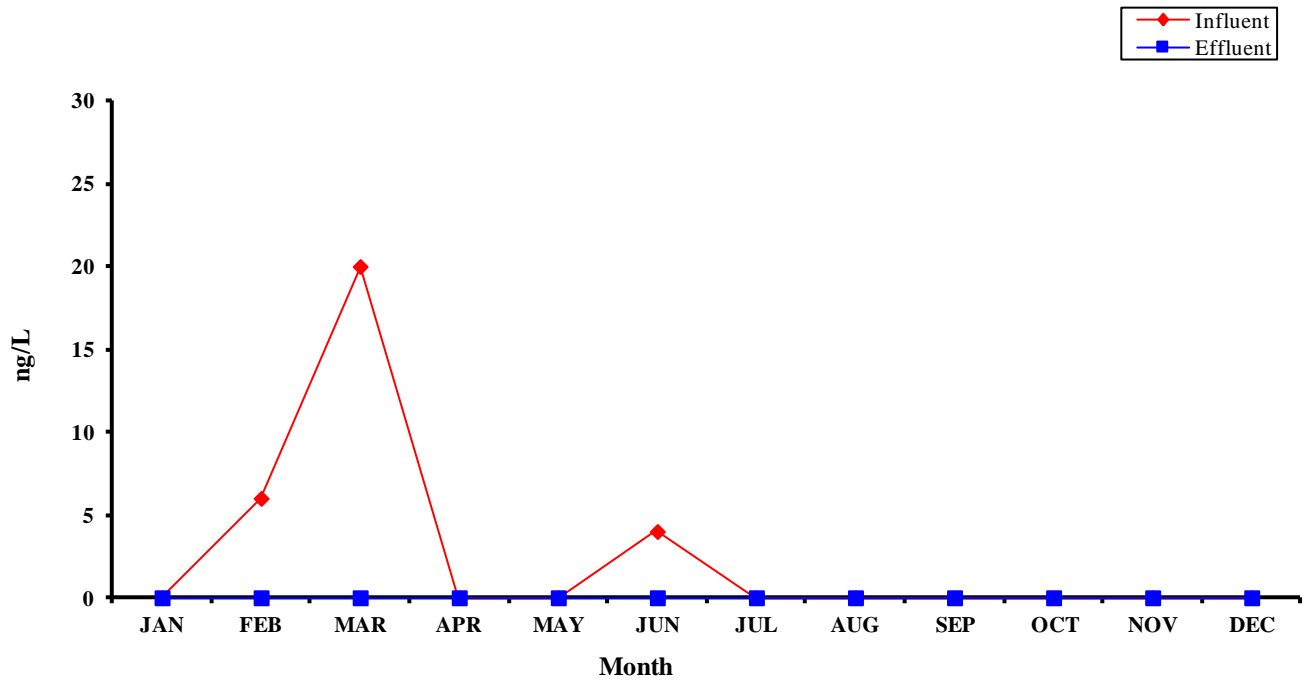
Purgeables Organic Compounds 2011 Monthly Averages



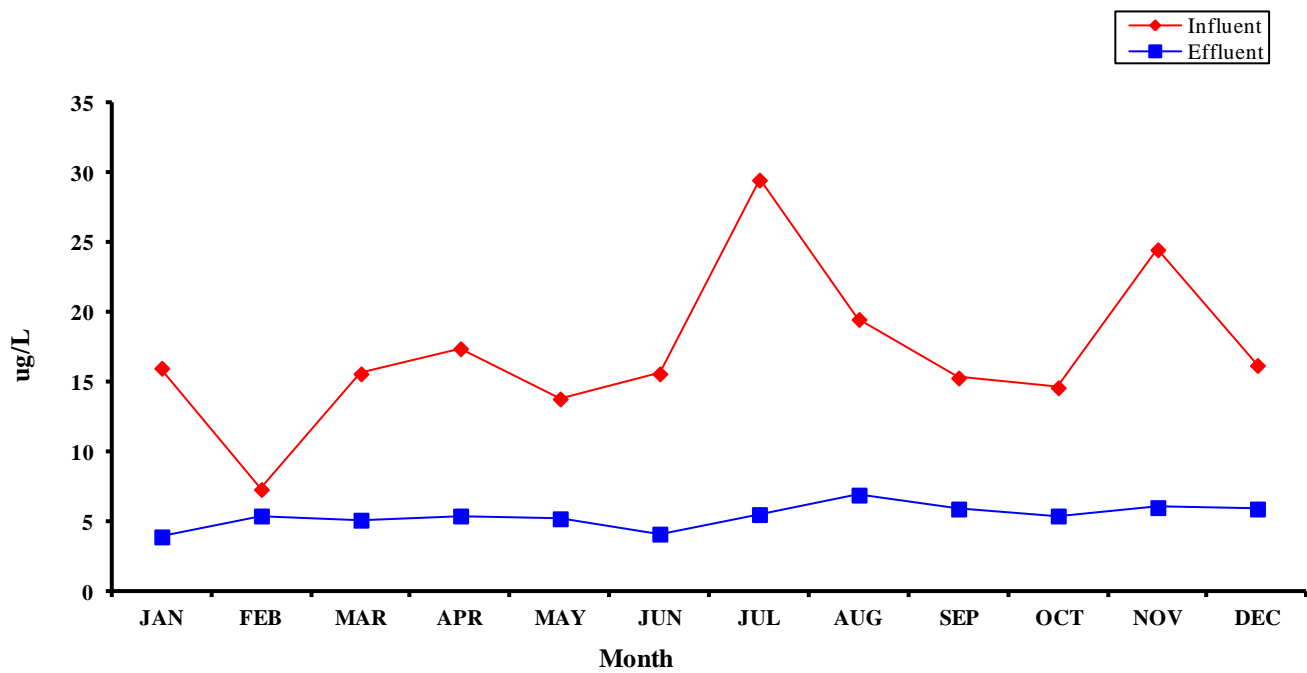
Phenols 2011 Monthly Averages



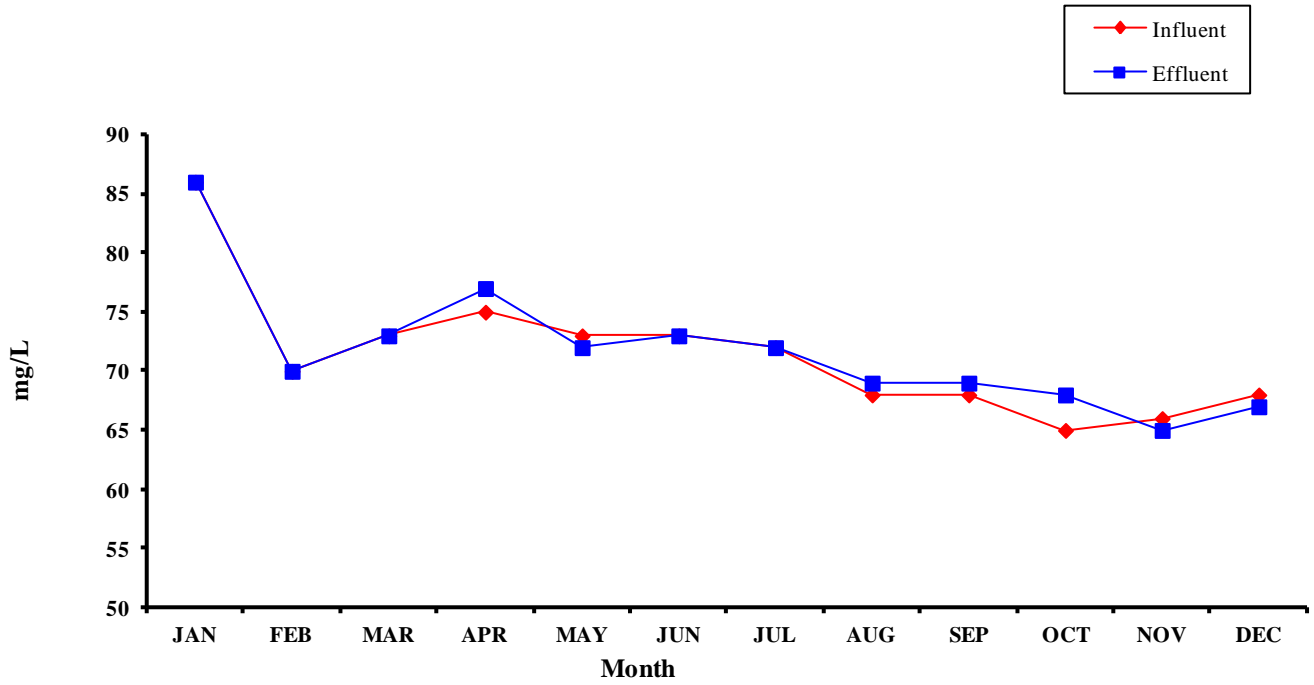
Total Chlorinated Hydrocarbons 2011 Monthly Averages



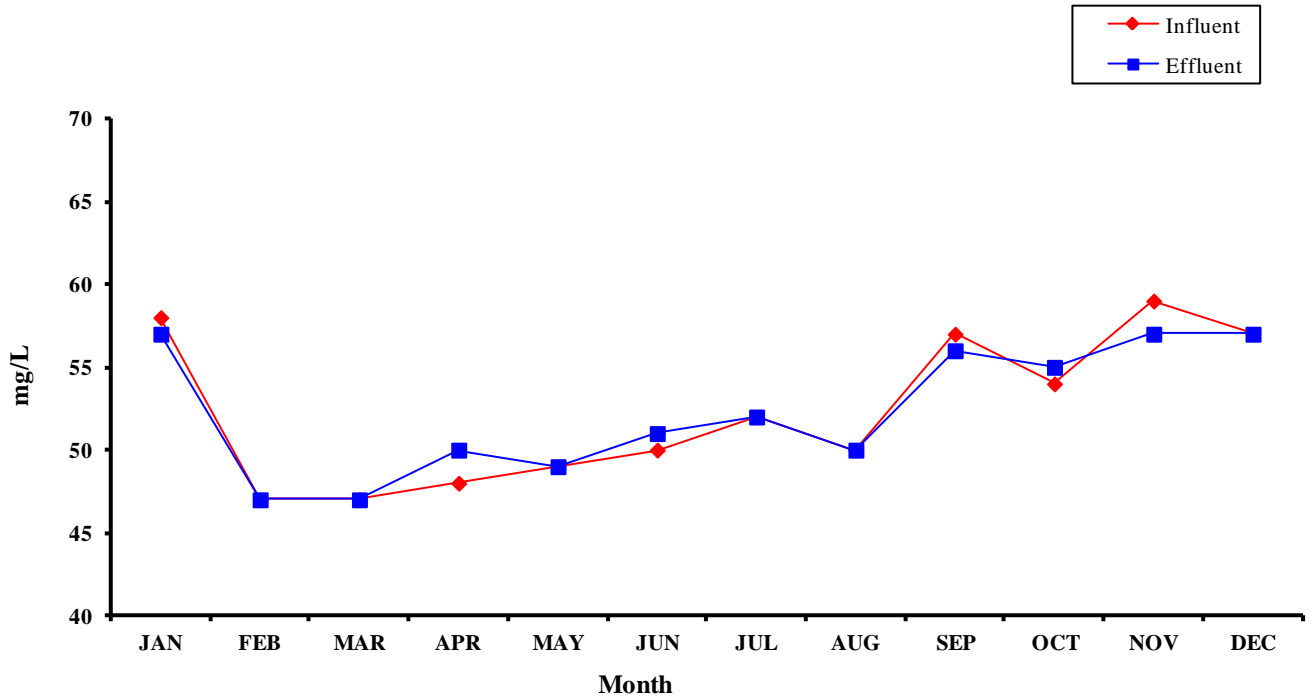
Base Neutrals 2011 Monthly Averages



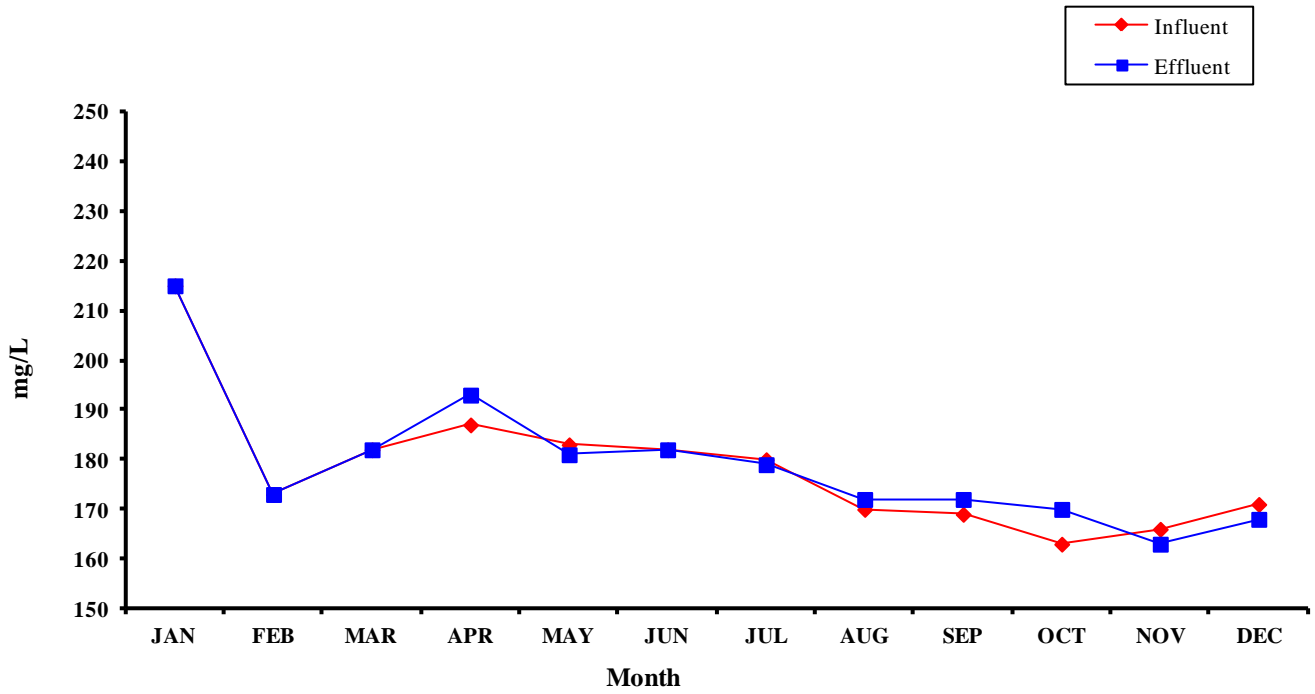
Calcium 2011 Monthly Averages



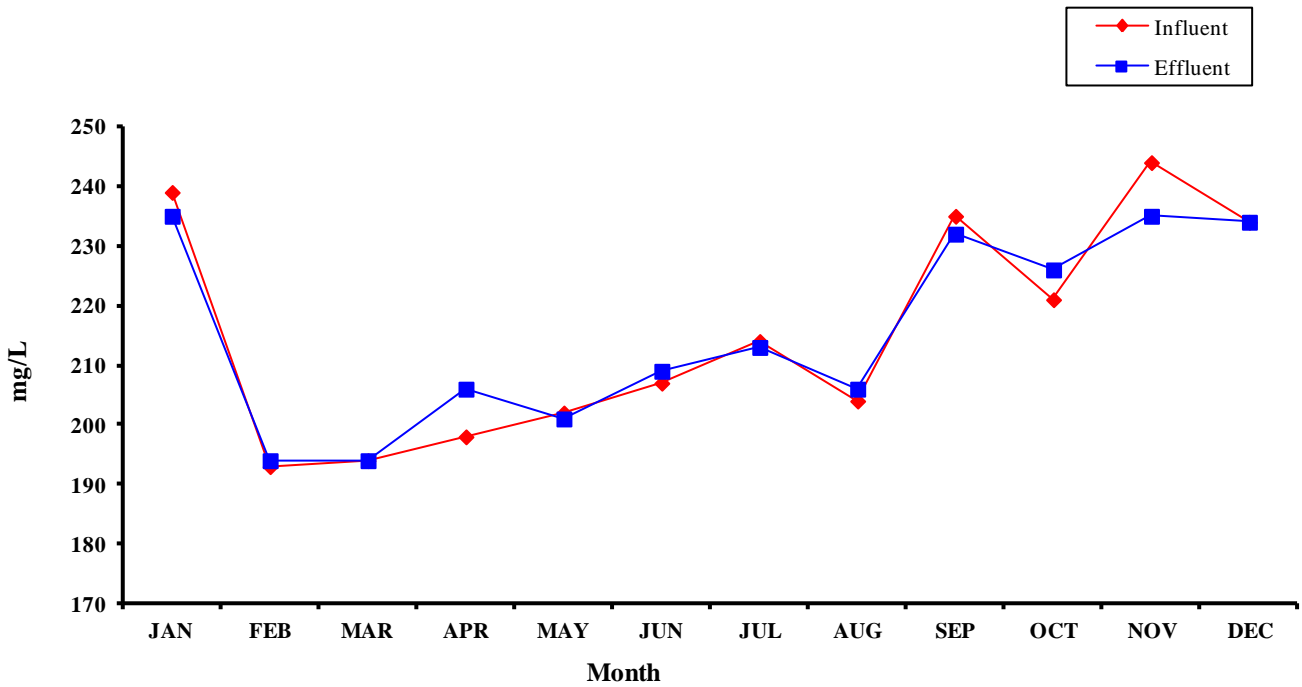
Magnesium 2011 Monthly Averages



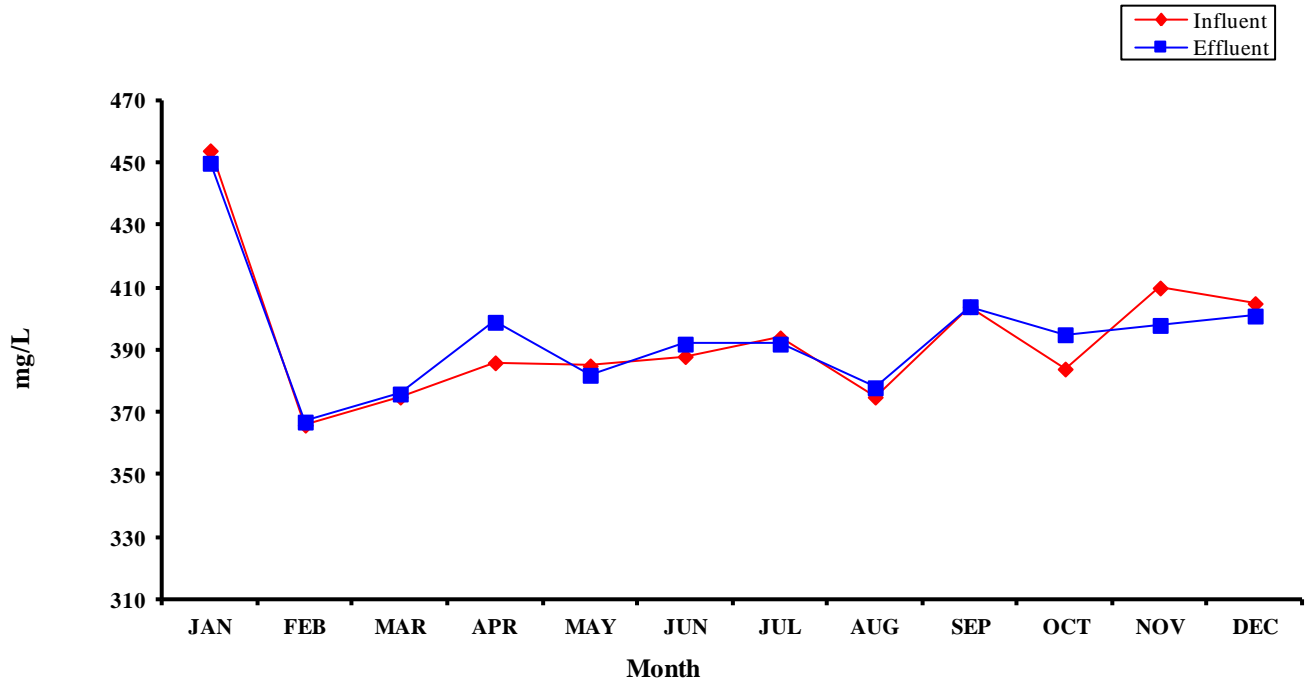
Calcium Hardness 2011 Monthly Averages



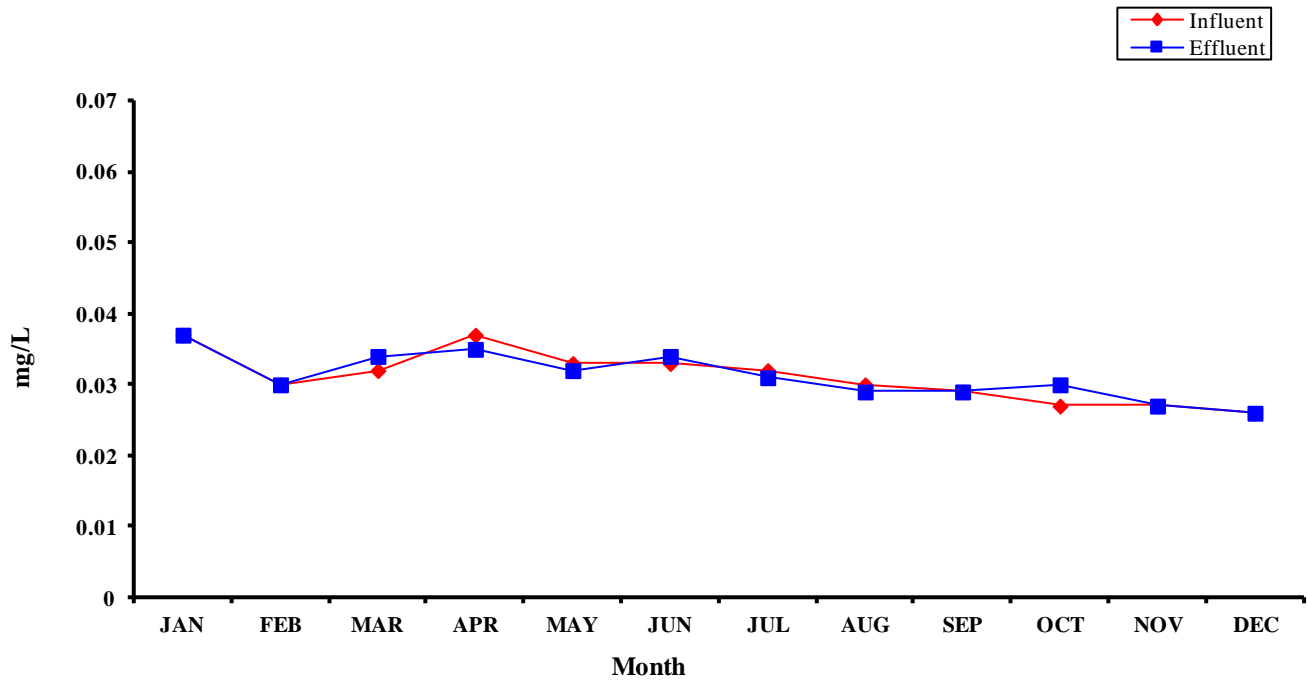
Magnesium Hardness 2011 Monthly Averages



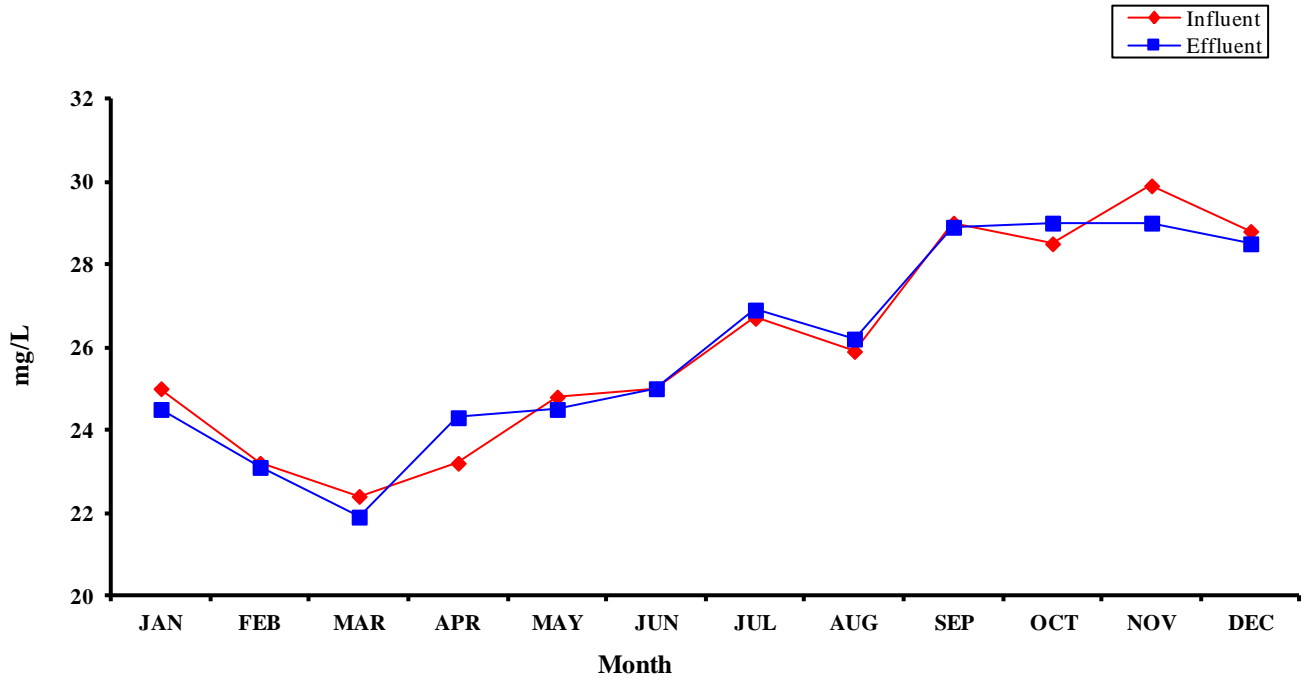
Total Hardness 2011 Monthly Averages



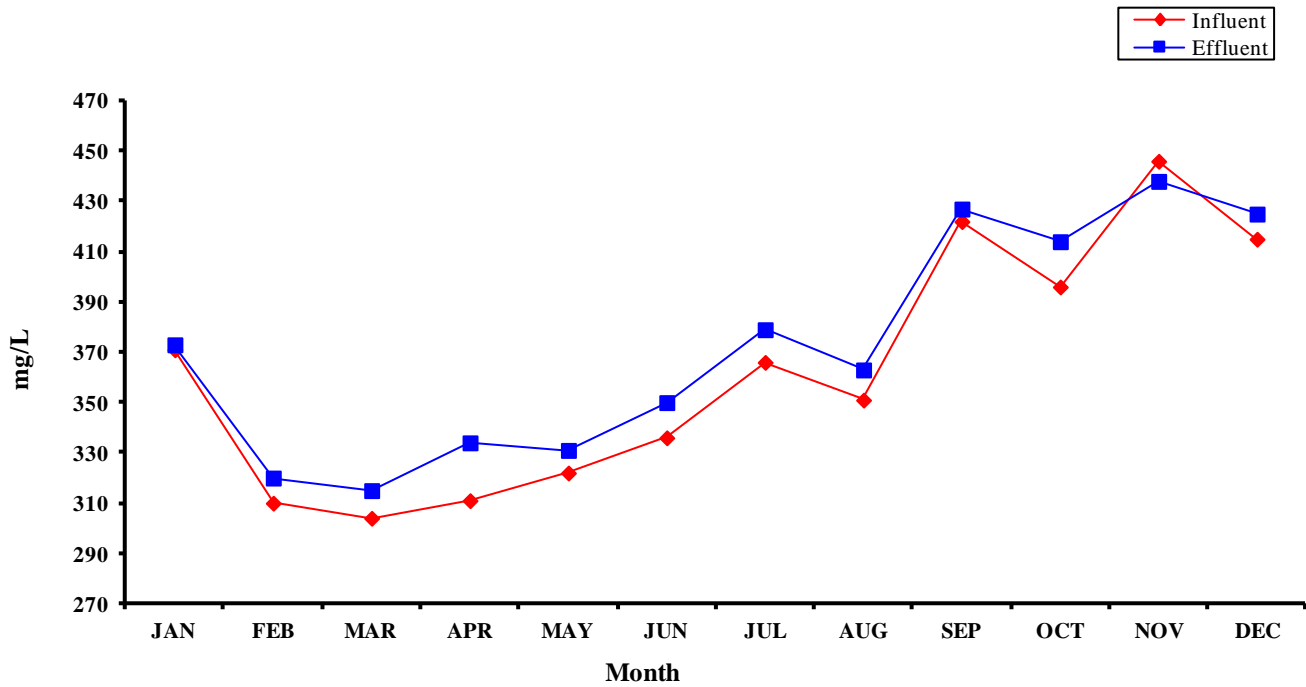
Lithium 2011 Monthly Averages



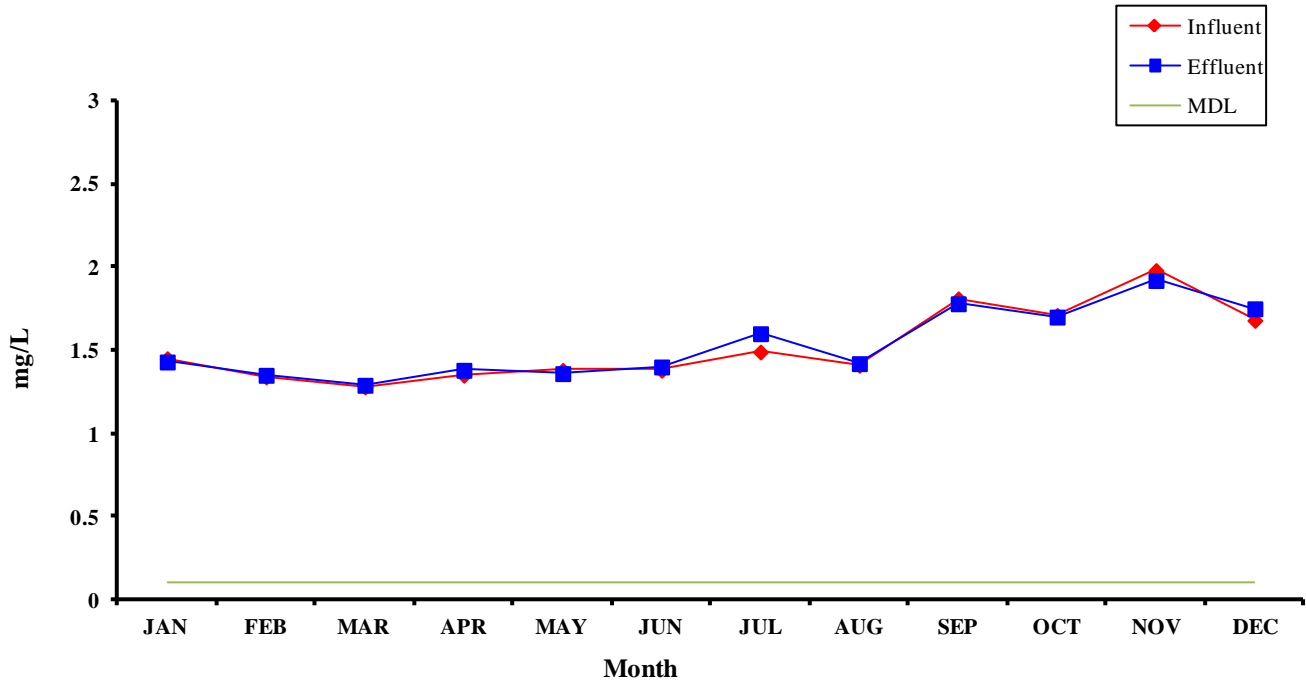
Potassium 2011 Monthly Averages



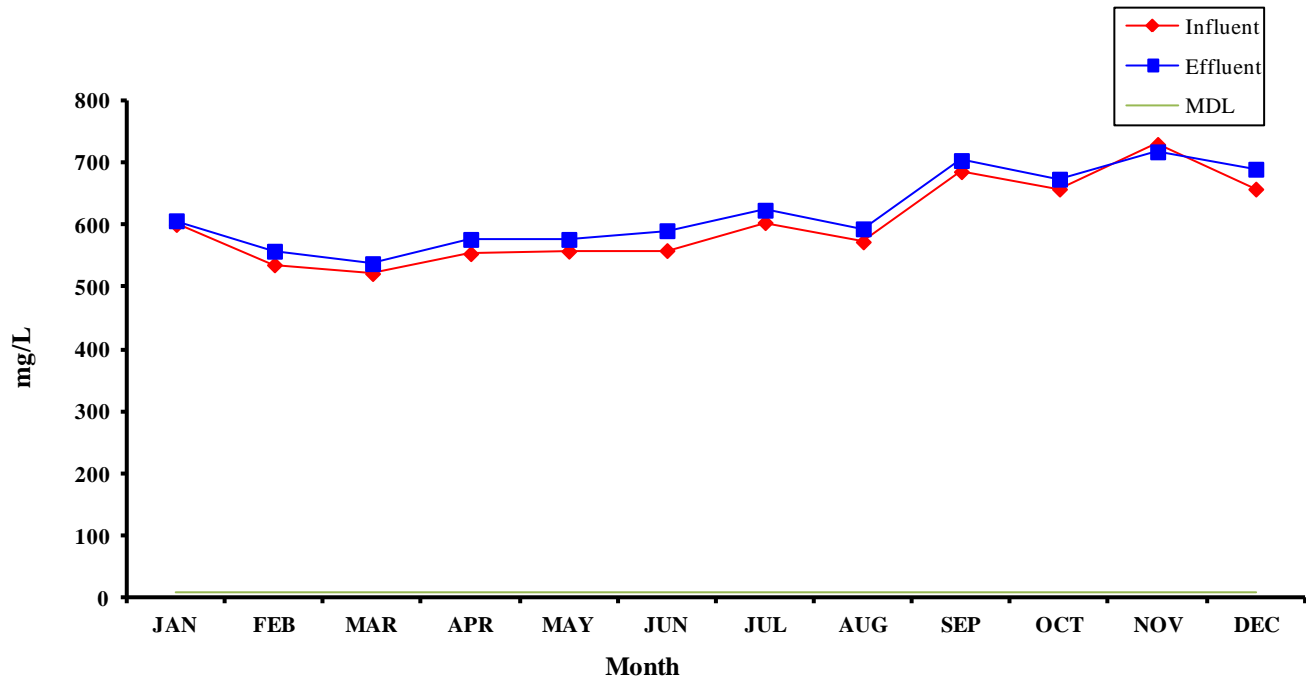
Sodium 2011 Monthly Averages



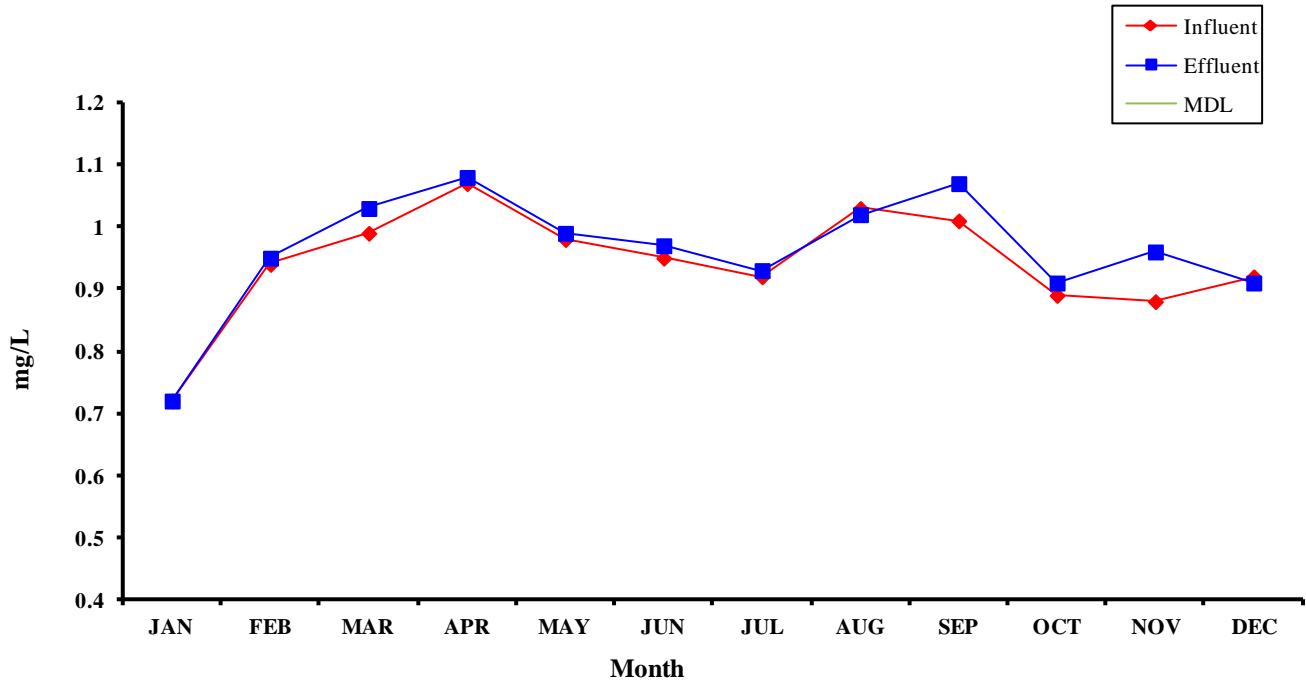
Bromide 2011 Monthly Averages



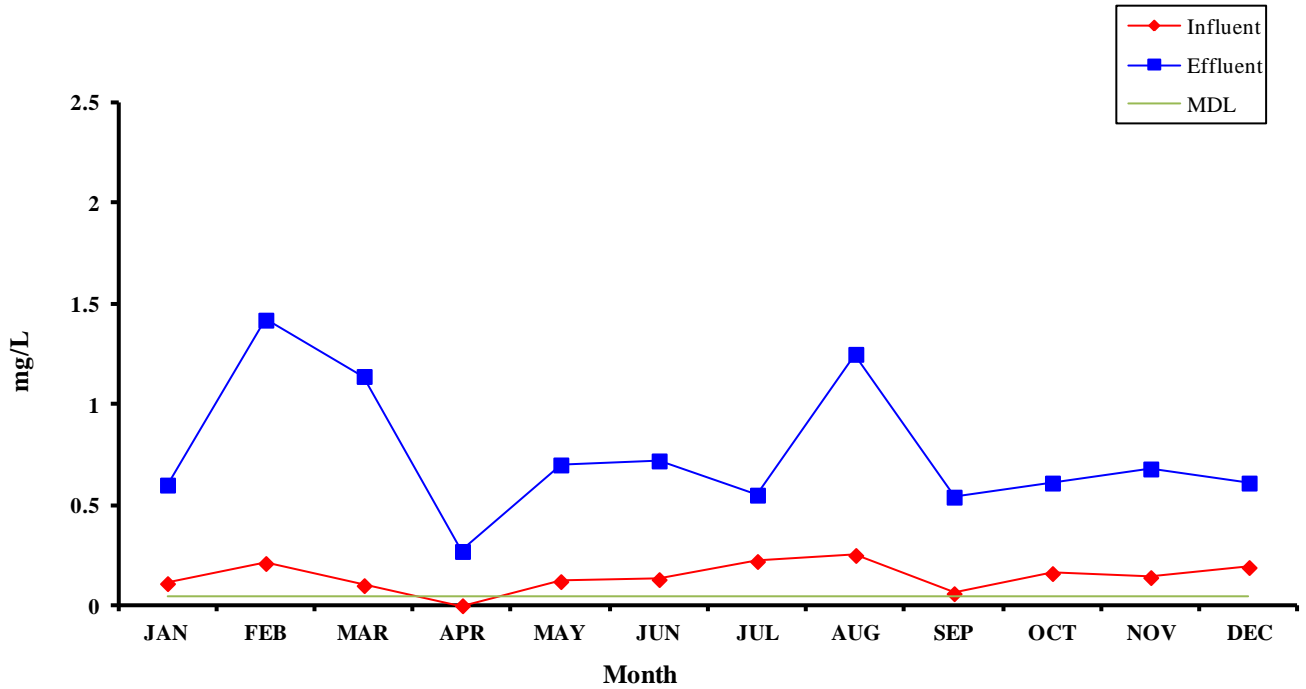
Chloride 2011 Monthly Averages



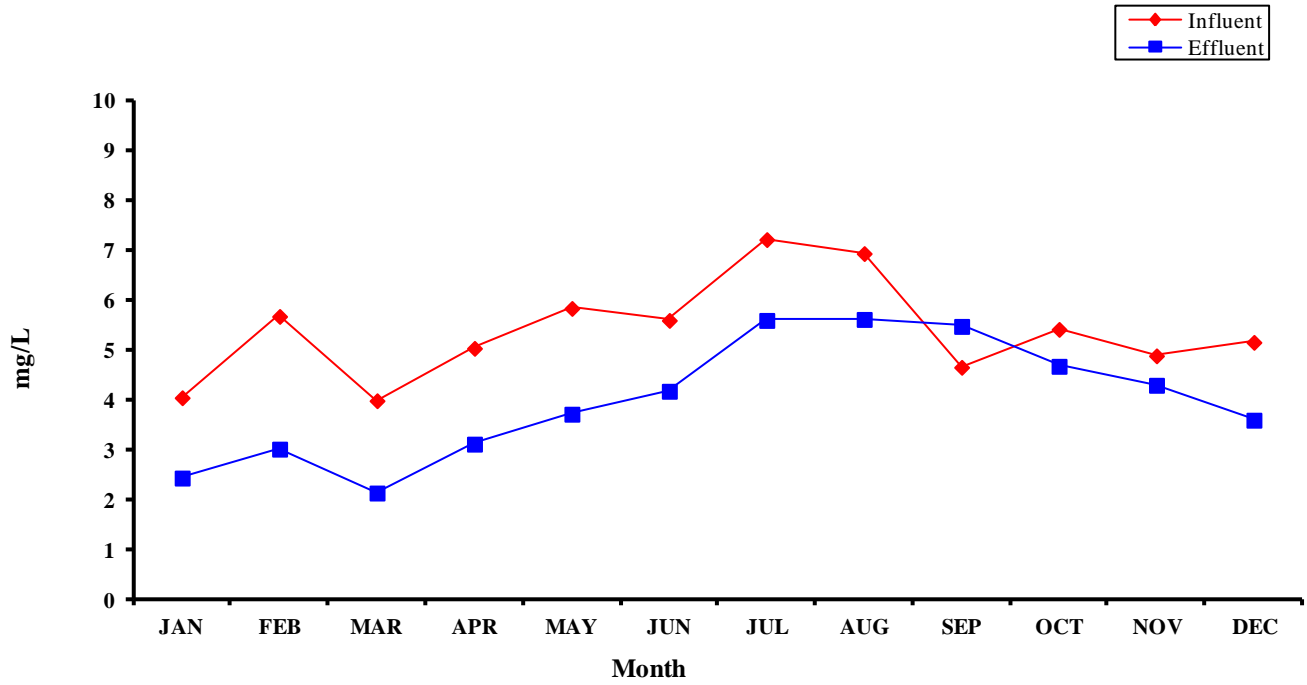
Fluoride 2011 Monthly Averages



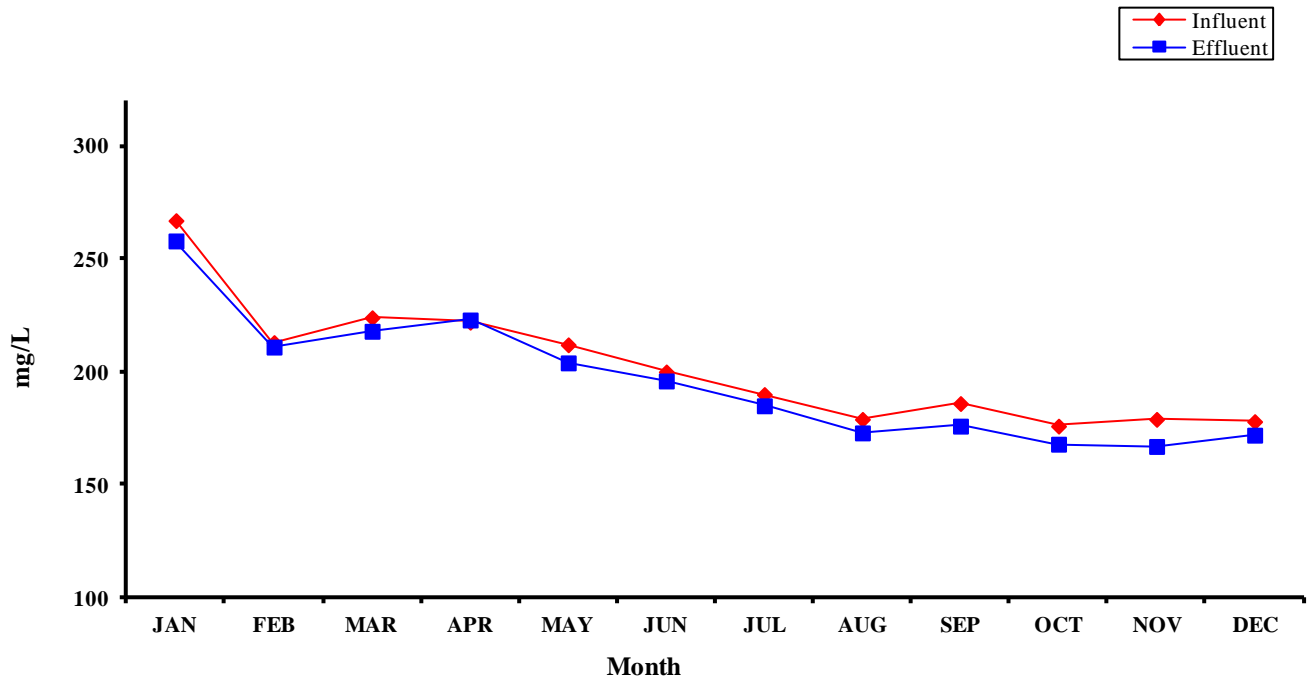
Nitrate 2011 Monthly Averages



O-Phosphate 2011 Monthly Averages



Sulfate 2011 Monthly Averages

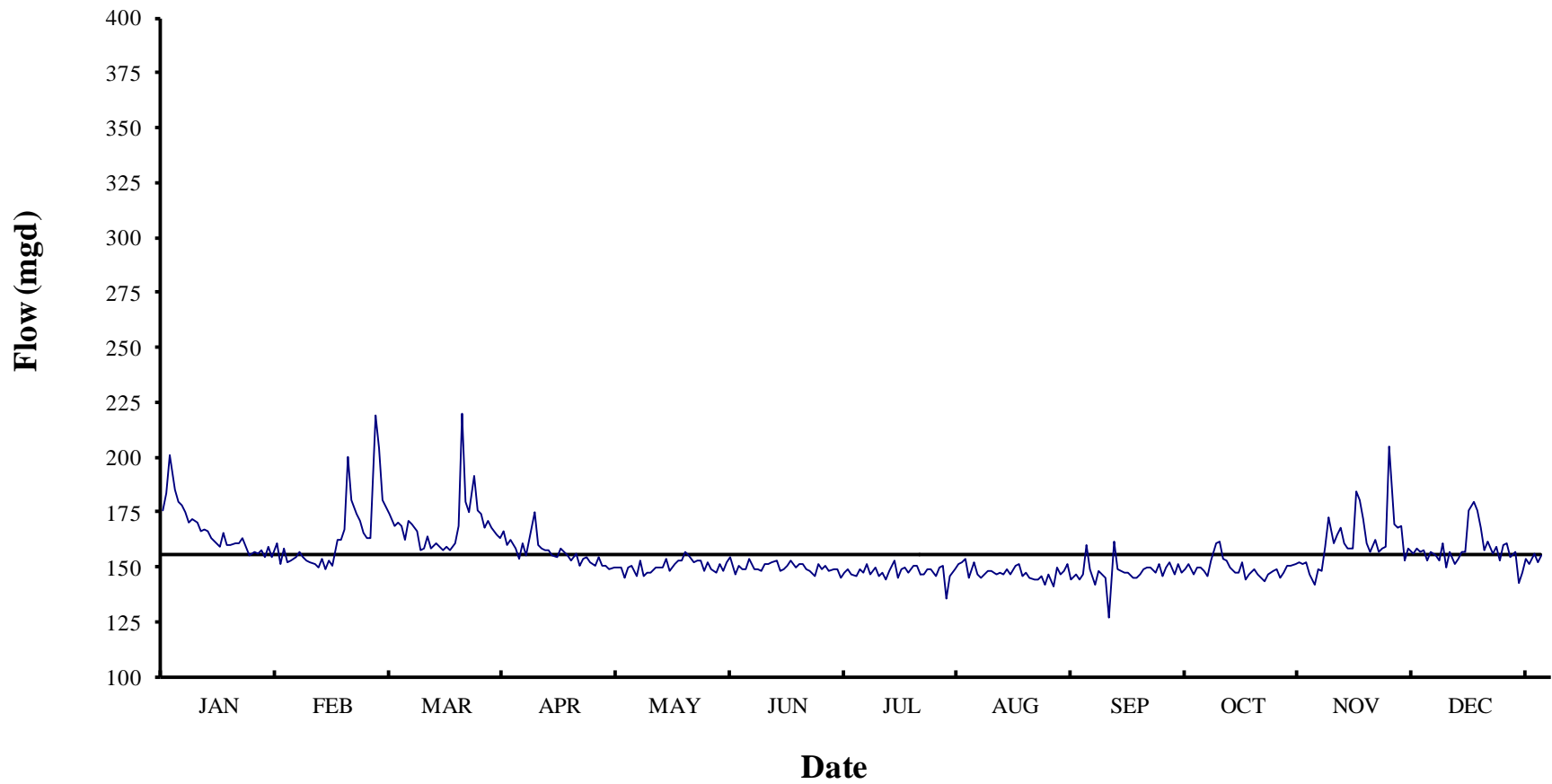


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E. Daily Values of Selected Parameters

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

Point Loma Wastewater Treatment Plant 2011 Daily Flows (mgd)

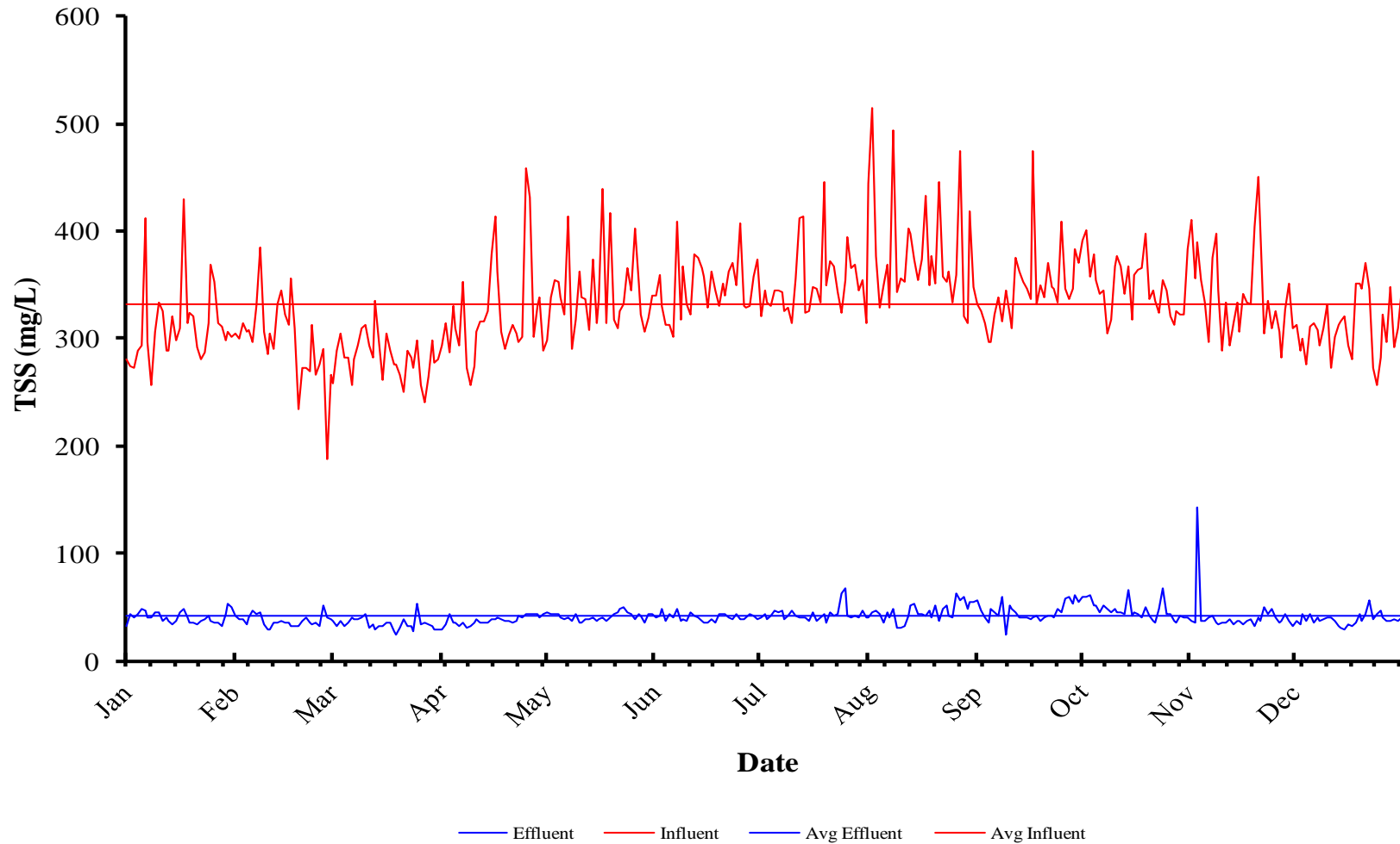


Point Loma Wastewater Treatment Plant

2011 Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	176.2	151.6	177.2	166.1	149.8	146.8	148.9	153.4	146.8	149.6	142.0	152.8	
2	183.9	158.5	174.2	160.1	149.4	150.5	146.5	144.9	159.8	149.7	149.3	156.9	
3	200.7	152.0	168.5	162.2	145.4	148.7	145.6	152.0	149.0	148.2	148.1	155.6	
4	185.3	153.2	170.6	158.6	149.8	149.3	148.7	147.0	142.1	146.3	159.2	153.0	
5	179.9	154.9	168.6	154.0	150.7	154.0	147.7	145.0	148.1	152.9	172.3	160.8	
6	177.8	156.9	162.2	160.9	146.1	148.8	151.5	146.6	146.6	160.8	161.1	149.8	
7	175.1	154.7	171.2	155.3	152.8	148.7	146.7	148.4	144.9	161.5	164.7	156.8	
8	170.3	152.7	169.8	163.0	145.5	148.4	149.5	148.6	126.7	153.6	168.1	151.1	
9	172.1	151.9	166.2	175.0	147.3	151.3	146.1	146.8	161.4	152.9	161.0	153.5	
10	170.6	151.6	157.5	159.9	147.7	151.3	147.4	147.4	149.1	149.8	158.4	156.9	
11	166.7	149.8	158.3	158.8	149.6	152.4	144.7	146.9	148.3	147.4	158.2	156.6	
12	167.3	153.6	164.0	158.0	149.9	153.0	148.1	148.9	147.1	147.1	184.4	175.7	
13	166.1	149.4	158.8	157.3	150.0	148.0	152.6	146.3	147.7	151.9	180.7	179.3	
14	163.4	152.8	161.0	155.2	153.5	148.9	145.0	150.6	144.7	144.6	171.9	176.0	
15	160.7	150.3	159.3	154.3	148.1	151.0	149.3	151.0	144.8	146.7	161.0	168.0	
16	159.6	162.4	157.8	158.2	151.5	153.0	150.0	146.0	146.3	149.3	157.0	157.6	
17	165.9	162.3	159.0	156.6	152.9	149.5	147.1	147.3	149.1	146.5	162.4	161.3	
18	160.0	166.7	157.9	155.2	153.3	151.2	150.8	145.2	149.8	144.8	156.5	155.9	
19	160.0	199.9	160.7	153.1	157.3	151.6	150.4	144.5	149.5	143.5	158.3	159.3	
20	161.1	180.1	168.4	156.2	155.0	149.2	146.4	144.0	147.3	146.7	159.3	153.1	
21	161.2	174.6	220.2	150.5	152.4	147.9	146.4	145.9	151.6	148.4	204.9	160.1	
22	163.0	171.0	180.0	153.7	152.9	145.7	148.9	142.0	145.8	149.2	169.8	160.7	
23	158.9	165.8	175.2	154.9	153.1	151.2	149.0	146.3	150.1	145.2	167.7	154.8	
24	155.5	162.8	191.5	152.0	148.5	148.7	145.7	140.8	152.0	147.1	168.6	157.0	
25	156.5	162.9	176.1	150.5	152.5	150.6	149.4	149.8	146.9	150.7	153.3	143.0	
26	155.9	218.9	174.5	154.5	149.3	148.4	150.8	147.0	151.1	150.6	158.1	147.4	
27	157.3	204.1	167.9	150.5	147.3	149.4	135.5	148.2	147.4	151.2	156.1	153.5	
28	154.8	180.2	171.3	150.3	151.6	149.1	145.6	151.5	149.2	152.4	158.4	151.2	
29	159.4		168.3	149.1	148.2	145.0	149.1	144.5	151.1	151.8	157.0	156.4	
30	154.5		165.0	150.1	152.5	147.2	151.0	147.0	146.4	152.3	157.4	152.0	Annual
31	160.8		163.5		154.6		152.3	144.0		146.5		155.5	Summary
Average	166.5	164.5	169.2	156.5	150.6	149.6	148.0	147.0	148.0	149.6	162.8	157.5	155.8
Minimum	154.5	149.4	157.5	149.1	145.4	145.0	135.5	140.8	126.7	143.5	142.0	143.0	127
Maximum	200.7	218.9	220.2	175.0	157.3	154.0	152.6	153.4	161.4	161.5	204.9	179.3	220
Total	5160.2	4605.4	5244.7	4693.8	4668.4	4488.6	4586.6	4557.7	4440.7	4638.9	4885.3	4881.5	56852

Point Loma Wastewater Treatment Plant 2011 Total Suspended Solids

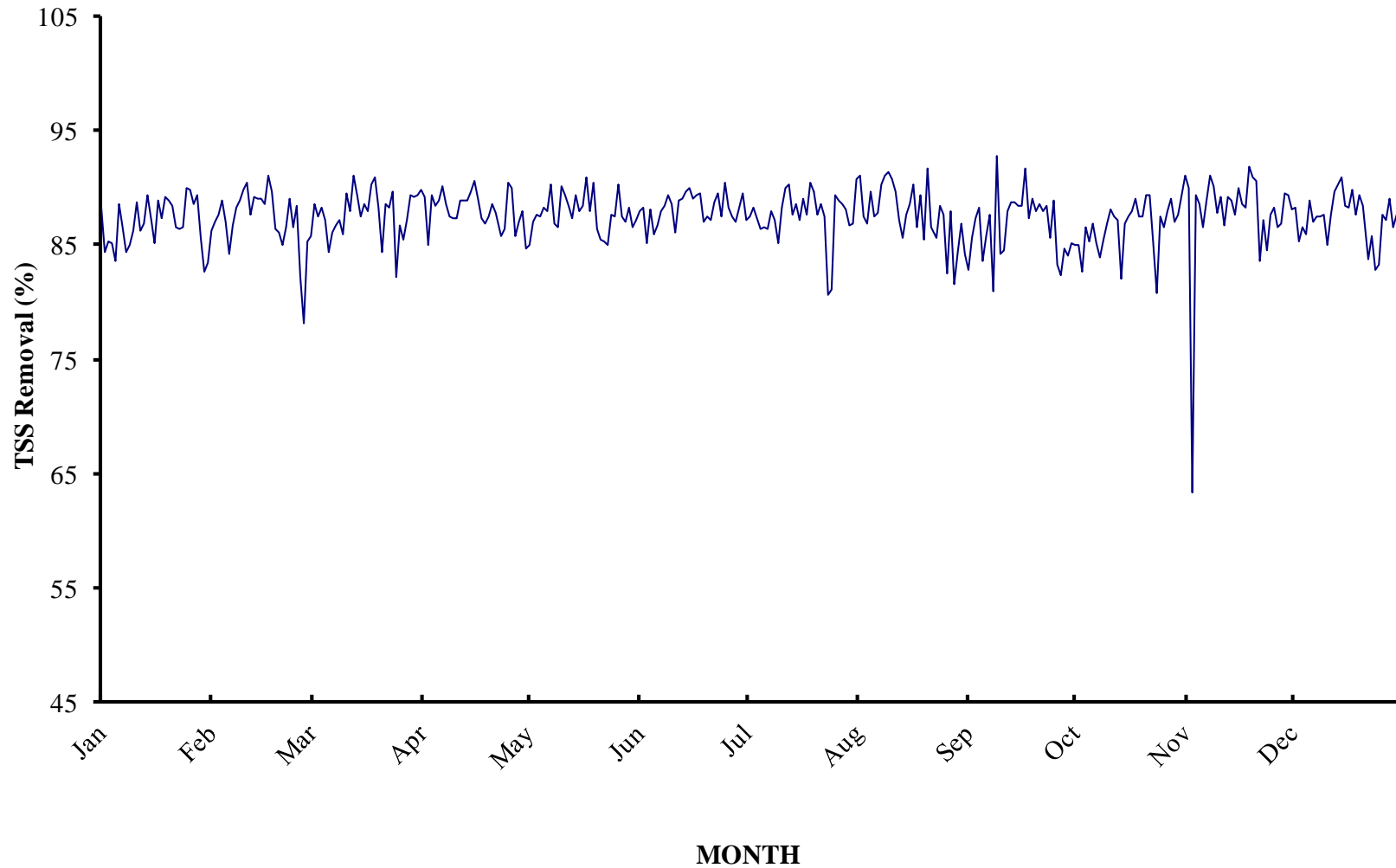


Point Loma Wastewater Treatment Plant

2011 Total Suspended Solids (mg/L)

Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec			
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff		
1	280	33	305	42	258	37	294	30	299	45	340	41	320	41	444	41	332	57	391	59	410	37	312	37		
2	274	43	300	39	288	33	314	34	338	44	360	42	345	43	515	46	326	47	401	60	356	36	288	34		
3	273	40	314	39	304	38	287	43	355	44	331	49	334	39	377	47	314	40	357	62	390	143	300	44		
4	289	43	306	34	283	33	330	35	353	44	312	37	330	42	329	43	296	35	379	51	355	38	276	37		
5	293	48	308	40	282	36	310	36	338	40	312	44	345	47	350	36	297	49	354	52	334	38	311	44		
6	412	47	297	47	257	40	294	33	323	39	301	40	344	46	369	46	322	46	341	45	296	40	314	35		
7	296	40	330	44	280	39	353	35	413	40	409	49	343	47	328	40	339	42	344	51	376	42	308	40		
8	256	40	385	45	294	39	273	31	291	38	318	37	325	39	493	48	316	60	305	49	398	36	294	37		
9	306	46	306	34	310	40	257	32	318	43	367	39	328	42	343	31	344	25	318	46	344	34	309	39		
10	333	46	285	29	312	44	275	35	362	36	332	38	315	47	356	31	323	51	367	48	288	35	332	41		
11	326	37	305	29	294	31	306	39	339	36	323	45	356	42	353	33	309	48	377	45	334	36	272	41		
12	289	40	290	36	282	34	316	35	336	39	379	42	412	41	402	42	376	45	367	46	294	39	302	37		
13	289	38	332	36	335	30	316	35	308	39	376	41	414	40	398	51	363	41	342	44	314	34	312	32		
14	320	34	345	38	298	32	325	36	373	40	365	38	324	40	374	54	353	40	367	66	334	37	316	31		
15	299	38	322	35	262	33	378	39	315	38	358	36	325	37	354	44	346	40	317	42	306	38	320	29		
16	309	46	312	36	304	35	414	39	335	39	328	36	348	45	373	43	337	39	360	45	341	34	294	34		
17	430	48	356	32	289	35	363	40	440	40	363	39	347	38	433	42	475	40	364	44	334	38	280	33		
18	314	40	309	32	276	27	307	39	314	38	344	36	333	41	350	47	332	42	366	40	332	39	352	36		
19	324	35	235	32	276	25	291	38	417	40	330	43	446	43	377	40	349	38	398	50	404	33	351	43		
20	321	36	272	38	266	31	303	38	317	43	351	44	350	36	351	51	338	41	336	42	450	41	346	37		
21	292	34	272	41	250	39	312	36	309	45	340	44	372	46	445	37	370	42	345	37	403	38	370	43		
22	281	38	269	36	288	33	304	37	326	48	362	41	368	42	357	48	348	42	335	36	305	50	346	56		
23	287	39	313	34	283	33	296	42	332	50	371	39	343	43	353	51	346	40	324	48	335	43	273	39		
24	314	42	266	36	272	28	301	41	366	45	349	44	324	63	363	42	333	48	354	68	310	48	256	44		
25	369	37	276	32	298	53	458	44	344	43	407	39	354	67	334	41	409	46	345	43	326	40	282	47		
26	353	36	290	52	256	34	432	43	402	39	330	39	395	42	360	63	347	58	320	43	306	36	322	40		
27	314	36	188	41	240	35	301	43	352	44	329	41	365	41	474	57	336	59	313	38	282	38	296	38		
28	311	33	266	39	265	34	331	43	323	42	331	43	369	42	321	59	346	53	326	36	327	43	348	38		
29	298	43			298	32	339	41	307	36	357	42	345	41	314	49	384	61	322	42	352	37	292	39		
30	306	53			278	30	288	44	319	43	373	39	354	47	418	55	370	55	323	40	309	33	310	38		
31	301	50			281	30			340	44			314	41	348	55			384	41			346	40		
	Summary																									
	Inf																						Eff			
Avg	312	41	298	37	283	35	322	38	342	41	348	41	351	44	379	46	346	46	350	47	342	42	311	39	306	38
Min	256	33	188	29	240	25	257	30	291	36	301	36	314	36	314	31	296	25	305	36	282	33	256	29	188	25
Max	430	53	385	52	335	53	458	44	440	50	409	49	446	67	515	63	475	61	401	68	450	143	370	56	515	143

Point Loma Wastewater Treatment Plant 2011 TSS Removal (%) at Point Loma

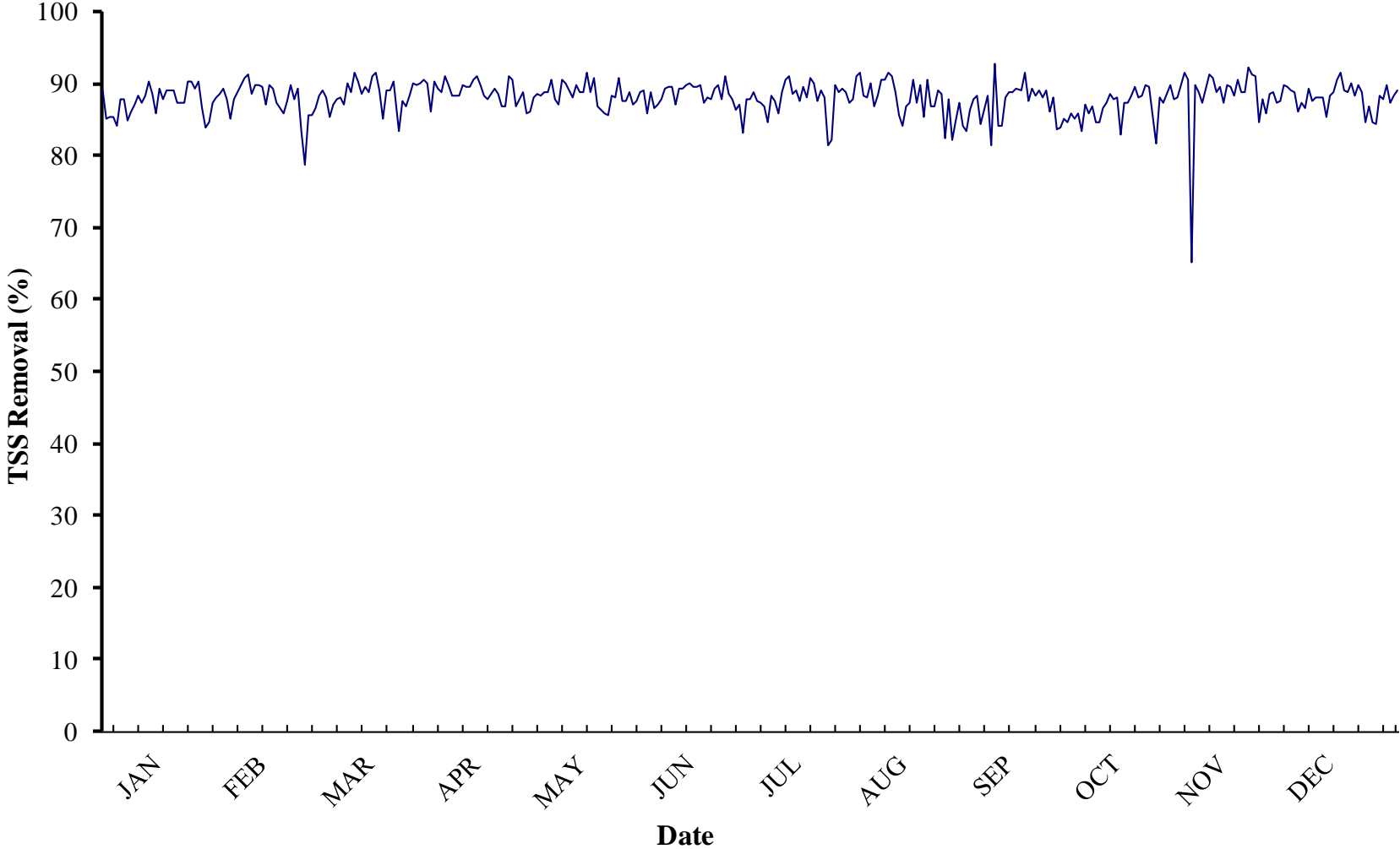


Point Loma Wastewater Treatment Plant

2011 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	88.2	86.2	85.7	89.8	84.9	87.9	87.2	90.8	82.8	84.9	91.0	88.1	
2	84.3	87.0	88.5	89.2	87.0	88.3	87.5	91.1	85.6	85.0	89.9	88.2	
3	85.3	87.6	87.5	85.0	87.6	85.2	88.3	87.5	87.3	82.6	63.3	85.3	
4	85.1	88.9	88.3	89.4	87.5	88.1	87.3	86.9	88.2	86.5	89.3	86.6	
5	83.6	87.0	87.2	88.4	88.2	85.9	86.4	89.7	83.5	85.3	88.6	85.9	
6	88.6	84.2	84.4	88.8	87.9	86.7	86.6	87.5	85.7	86.8	86.5	88.9	
7	86.5	86.7	86.1	90.1	90.3	88.0	86.3	87.8	87.6	85.2	88.8	87.0	
8	84.4	88.3	86.7	88.6	86.9	88.4	88.0	90.3	81.0	83.9	91.0	87.4	
9	85.0	88.9	87.1	87.5	86.5	89.4	87.2	91.0	92.7	85.5	90.1	87.4	
10	86.2	89.8	85.9	87.3	90.1	88.6	85.1	91.3	84.2	86.9	87.8	87.7	
11	88.7	90.5	89.5	87.3	89.4	86.1	88.2	90.7	84.5	88.1	89.2	84.9	
12	86.2	87.6	87.9	88.9	88.4	88.9	90.0	89.6	88.0	87.5	86.7	87.7	
13	86.9	89.2	91.0	88.9	87.3	89.1	90.3	87.2	88.7	87.1	89.2	89.7	
14	89.4	89.0	89.3	88.9	89.3	89.6	87.7	85.6	88.7	82.0	88.9	90.2	
15	87.3	89.1	87.4	89.7	87.9	89.9	88.6	87.6	88.4	86.8	87.6	90.9	
16	85.1	88.5	88.5	90.6	88.4	89.0	87.1	88.5	88.4	87.5	90.0	88.4	
17	88.8	91.0	87.9	89.0	90.9	89.3	89.0	90.3	91.6	87.9	88.6	88.2	
18	87.3	89.6	90.2	87.3	87.9	89.5	87.7	86.6	87.3	89.1	88.3	89.8	
19	89.2	86.4	90.9	86.9	90.4	87.0	90.4	89.4	89.1	87.4	91.8	87.7	
20	88.8	86.0	88.3	87.5	86.4	87.5	89.7	85.5	87.9	87.5	90.9	89.3	
21	88.4	84.9	84.4	88.5	85.4	87.1	87.6	91.7	88.6	89.3	90.6	88.4	
22	86.5	86.6	88.5	87.8	85.3	88.7	88.6	86.6	87.9	89.3	83.6	83.8	
23	86.4	89.1	88.3	85.8	84.9	89.5	87.5	85.6	88.4	85.2	87.2	85.7	
24	86.6	86.5	89.7	86.4	87.7	87.4	80.6	88.4	85.6	80.8	84.5	82.8	
25	90.0	88.4	82.2	90.4	87.5	90.4	81.1	87.7	88.8	87.5	87.7	83.3	
26	89.8	82.1	86.7	90.0	90.3	88.2	89.4	82.5	83.3	86.6	88.2	87.6	
27	88.5	78.1	85.4	85.7	87.5	87.5	88.8	88.0	82.4	87.9	86.5	87.2	
28	89.4	85.3	87.2	87.0	87.0	87.0	88.6	81.6	84.7	89.0	86.9	89.1	
29	85.6		89.3	87.9	88.3	88.2	88.1	84.4	84.1	87.0	89.5	86.6	
30	82.7		89.2	84.7	86.5	89.5	86.7	86.8	85.1	87.6	89.3	87.7	Annual
31	83.4		89.3		87.1		86.9	84.2		89.3		88.4	Summary
Avg	86.8	87.2	87.7	88.1	87.8	88.2	87.5	87.8	86.7	86.5	87.7	87.4	87.5
Min	82.7	78.1	82.2	84.7	84.9	85.2	80.6	81.6	81.0	80.8	63.3	82.8	63.3
Max	90.0	91.0	91.0	90.6	90.9	90.4	90.4	91.7	92.7	89.3	91.8	90.9	92.7

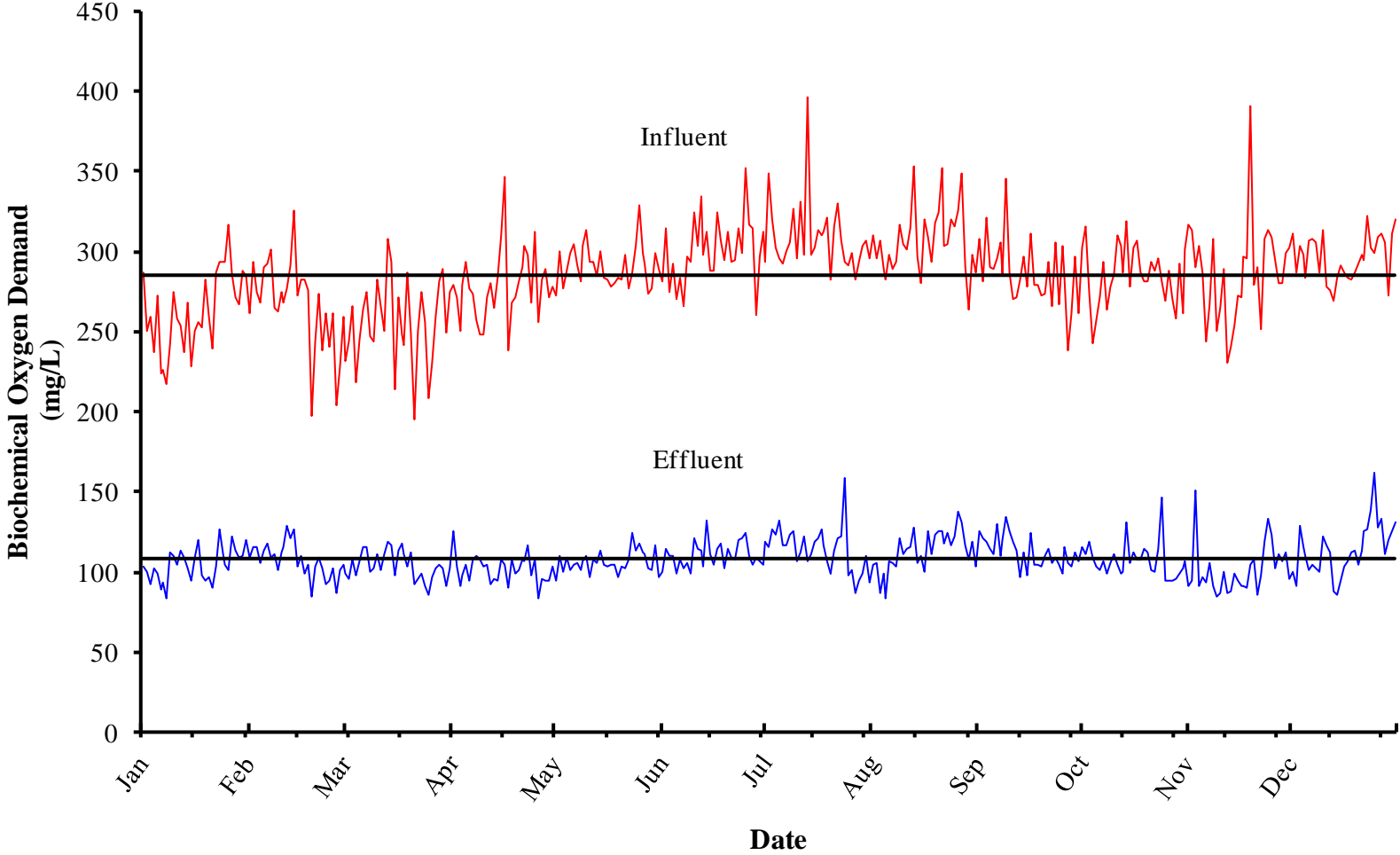
Point Loma Wastewater Treatment Plant 2011 TSS Removal (%) Systemwide



Point Loma Wastewater Treatment Plant
2011 Total Suspended Solids Removals (%) Systemwide

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem	
1	89.1	87.3	85.7	90.6	86.1	88.8	87.7	91.1	83.4	85.2	91.4	89.0	
2	85.2	88.0	86.5	90.0	88.0	89.0	87.8	91.5	86.4	85.8	90.5	88.8	
3	85.3	88.6	88.2	86.1	88.5	85.8	88.8	88.2	87.8	83.3	65.1	86.0	
4	85.3	89.2	89.0	90.3	88.2	88.7	87.6	88.1	88.4	87.0	89.9	87.3	
5	84.2	87.9	88.0	89.2	88.9	86.6	87.2	90.1	84.4	85.9	88.9	86.5	
6	87.8	85.2	85.4	88.9	88.7	87.1	86.8	86.9	86.4	86.9	87.2	89.4	
7	87.7	87.7	87.1	91.1	90.6	87.9	84.6	88.3	88.4	84.5	89.3	87.6	
8	84.9	88.9	87.8	89.9	87.7	89.4	88.2	90.6	81.5	84.6	91.3	88.1	
9	86.0	89.7	88.0	88.4	87.0	89.6	87.5	90.6	92.7	86.5	90.7	88.0	
10	87.0	90.7	87.1	88.4	90.6	89.5	85.9	91.5	84.0	87.4	88.7	88.1	
11	88.3	91.2	90.1	88.4	90.0	87.1	88.7	90.9	84.1	88.6	89.6	85.3	
12	87.3	88.6	88.8	89.8	89.0	89.4	90.4	88.9	88.0	87.8	87.2	88.3	
13	88.3	89.8	91.6	89.5	88.1	89.2	90.9	85.7	88.7	88.0	89.9	88.9	
14	90.3	89.7	90.2	89.5	89.8	89.7	88.5	84.2	88.7	83.0	89.5	90.5	
15	88.6	89.6	88.6	90.4	88.7	90.1	89.1	86.8	89.2	87.2	88.3	91.5	
16	85.9	87.1	89.5	90.9	88.8	89.5	87.6	87.4	89.0	87.2	90.6	89.1	
17	89.4	89.7	88.9	89.7	91.4	89.6	89.6	90.4	91.6	88.4	88.8	88.8	
18	87.7	89.3	91.1	88.4	88.7	89.9	88.1	87.4	87.5	89.5	88.7	90.0	
19	89.1	87.2	91.4	87.7	90.7	87.4	90.8	89.9	89.3	88.0	92.2	88.4	
20	89.1	86.6	89.1	88.5	86.8	88.1	90.0	85.3	88.4	88.2	91.2	89.9	
21	89.1	85.8	85.2	89.4	86.3	87.9	87.6	90.6	89.1	89.9	91.0	88.9	
22	87.4	87.5	89.1	88.6	85.9	89.3	89.0	86.8	88.1	89.6	84.6	84.6	
23	87.3	89.9	89.1	86.7	85.7	89.7	88.0	86.8	89.1	85.7	87.8	86.7	
24	87.4	87.8	90.2	86.8	88.3	87.8	81.5	89.1	86.0	81.6	85.8	84.5	
25	90.3	89.4	83.3	90.9	88.0	90.9	82.1	88.5	88.1	88.1	88.6	84.3	
26	90.3	83.3	87.5	90.6	90.7	88.6	89.7	82.3	83.7	87.4	88.9	88.4	
27	89.4	78.8	86.7	86.9	87.6	87.8	88.9	87.9	83.9	88.5	87.4	87.9	
28	90.2	85.5	88.2	87.9	87.5	86.3	89.3	82.1	85.2	89.7	87.6	89.7	
29	86.6		90.1	88.9	88.7	87.1	88.9	84.8	84.7	87.7	89.9	87.2	
30	83.8		89.9	85.9	87.0	83.1	87.4	87.3	85.8	88.0	89.6	88.4	Annual
31	84.6		90.1		87.6		87.7	84.2		89.9		89.1	Summary
Avg	87.5	87.9	88.4	88.9	88.4	88.4	87.9	87.9	87.1	87.1	88.3	88.0	88.0
Min	83.8	78.8	83.3	85.9	85.7	83.1	81.5	82.1	81.5	81.6	65.1	84.3	65.1
Max	90.3	91.2	91.6	91.1	91.4	90.9	90.9	91.5	92.7	89.9	92.2	91.5	92.7

Point Loma Wastewater Treatment Plant 2011 Biochemical Oxygen Demand

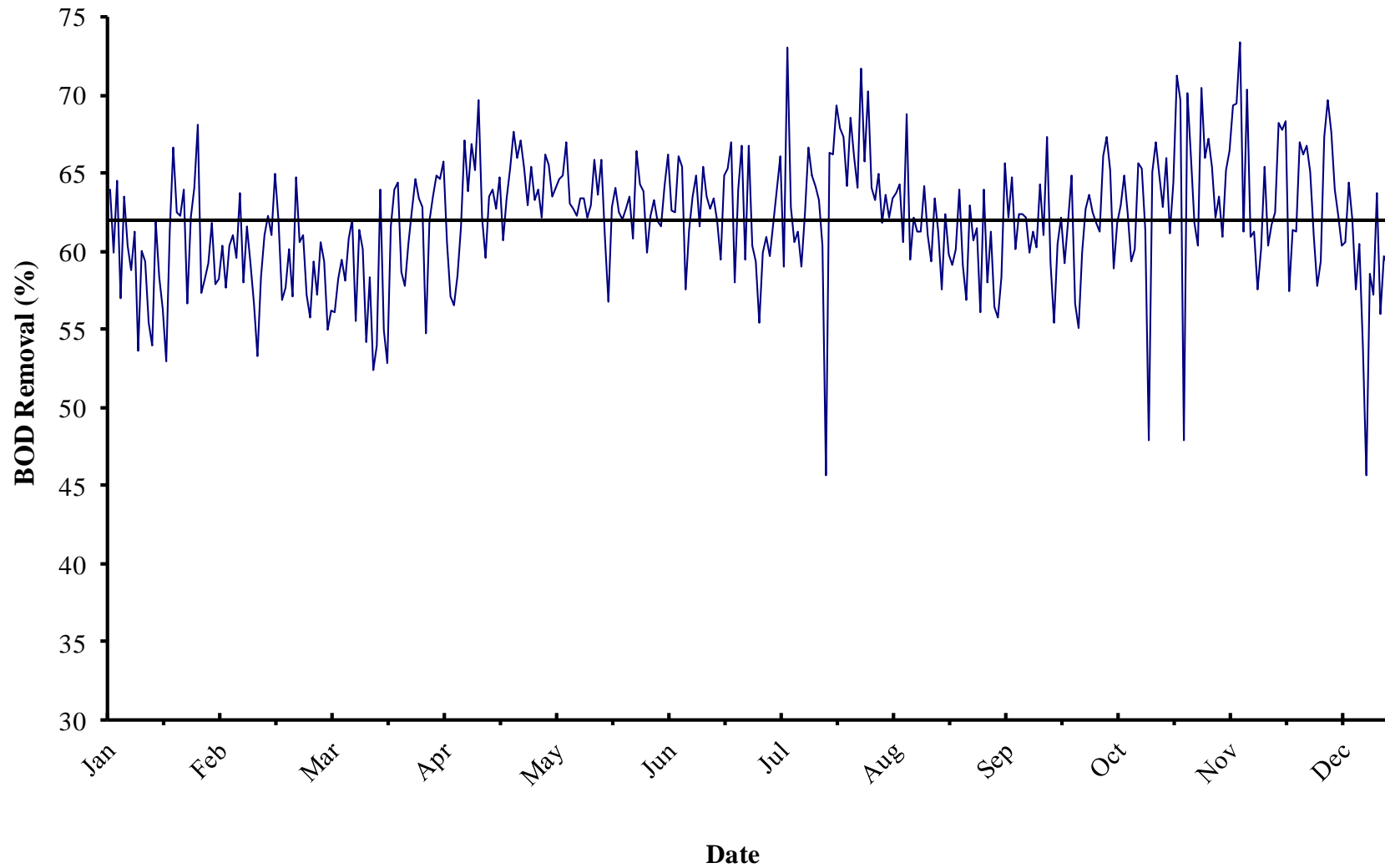


Point Loma Wastewater Treatment Plant

2011 Biochemical Oxygen Demand (mg/L)

Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec			
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff		
1	287	104	261	109	232	99	279	126	272	94	281	100	294	119	310	105	308	126	302	115	317	91	311	100		
2	250	100	293	116	244	96	271	103	300	110	315	114	349	116	296	106	281	121	316	111	314	95	287	91		
3	259	92	275	116	266	108	250	91	277	100	275	110	320	127	307	87	321	119	275	119	290	151	303	129		
4	237	102	268	106	218	98	279	98	288	109	292	110	302	123	289	99	290	114	243	109	304	91	298	115		
5	272	99	290	113	245	107	294	104	299	101	270	99	296	132	282	84	289	111	257	103	287	97	284	110		
6	224	89	292	118	264	116	277	95	305	105	284	108	292	117	298	107	296	130	271	101	244	93	307	101		
7	226	93	301	109	275	115	274	108	291	106	266	102	300	117	289	106	306	110	294	107	267	106	308	104		
8	217	84	265	111	247	100	257	110	281	101	297	106	306	123	294	103	286	120	264	99	308	91	306	102		
9	242	112	263	101	244	102	248	108	303	107	293	99	327	125	317	121	346	134	278	106	250	85	287	100		
10	275	110	275	112	283	111	248	103	314	110	324	121	296	107	305	111	287	125	286	111	265	87	313	122		
11	258	105	268	116	266	101	271	104	294	97	304	114	331	112	301	114	270	119	310	105	289	100	278	117		
12	254	113	277	129	250	111	280	92	293	108	334	113	298	122	315	115	271	113	303	99	230	87	276	112		
13	237	109	291	121	308	119	265	96	285	106	298	103	396	107	353	128	282	97	287	100	241	88	269	88		
14	268	102	326	127	293	117	284	94	300	113	312	132	298	111	297	106	297	112	319	131	254	99	284	86		
15	228	95	273	103	214	98	310	108	284	104	288	111	302	119	280	110	278	98	278	106	273	95	291	94		
16	250	109	282	110	271	113	347	105	282	103	288	105	313	121	320	100	311	124	302	112	271	91	287	104		
17	256	120	283	99	248	118	238	90	278	105	324	114	310	127	309	125	279	105	307	108	297	91	284	107		
18	253	98	276	105	242	111	268	108	280	104	307	118	312	117	293	111	279	105	287	108	296	90	283	112		
19	282	94	197	85	287	104	271	99	284	97	295	102	321	107	318	123	273	103	281	114	391	104	287	113		
20	259	97	244	103	249	112	281	101	283	103	312	114	282	99	325	126	274	110	281	112	279	108	292	104		
21	239	90	274	109	195	92	290	108	298	102	293	109	316	113	352	126	294	114	294	101	290	86	298	113		
22	287	104	238	102	250	96	304	107	277	108	295	108	330	121	303	118	266	106	288	100	251	98	295	125		
23	293	127	261	92	275	99	298	117	287	124	315	120	307	122	305	124	306	109	296	114	308	119	322	127		
24	294	111	241	95	256	91	268	98	304	113	299	121	293	159	320	117	267	104	281	146	314	133	302	139		
25	293	105	262	102	208	86	312	108	329	118	352	124	291	98	316	122	303	99	269	94	309	123	299	162		
26	317	101	204	87	230	97	256	83	299	112	317	110	299	101	326	138	285	116	288	95	295	102	309	128		
27	286	122	228	101	259	102	283	96	292	111	315	104	283	87	349	131	238	106	270	95	280	111	311	133		
28	271	113	259	105	281	105	289	95	274	102	260	109	293	94	291	117	261	103	258	96	280	107	306	111		
29	267	109			289	102	271	94	277	101	297	107	303	99	264	108	297	112	292	99	299	112	273	120		
30	288	110			249	91	278	103	299	117	312	104	307	110	298	119	262	107	262	102	302	96	311	125		
31	285	120			275	102			289	97			296	93	287	104			301	107			320	131		
																							Summary			
																							Inf	Eff		
Avg	262	104	267	107	255	104	278	102	291	106	300	110	309	115	307	114	287	112	285	107	287	101	295	113	285	108
Min	217	84	197	85	195	86	238	83	272	94	260	99	282	87	264	84	238	97	243	94	230	85	269	86	195	83
Max	317	127	326	129	308	119	347	126	329	124	352	132	396	159	353	138	346	134	319	146	391	151	322	162	396	162

Point Loma Wastewater Treatment 2011 BOD Removal (%) at Point Loma

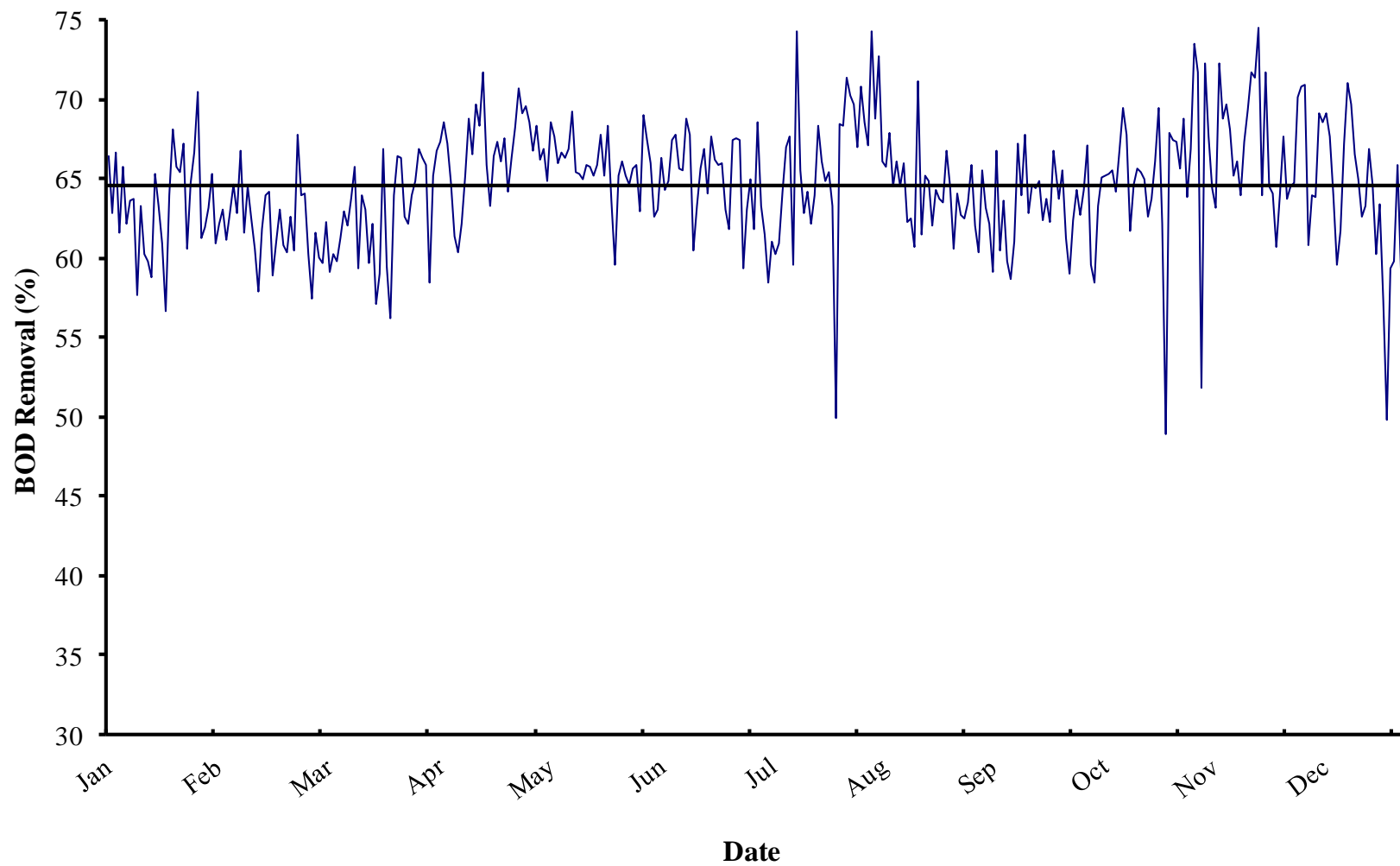


Point Loma Wastewater Treatment Plant

2011 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	63.9	58.2	57.2	54.8	65.4	64.3	59.5	66.1	59.1	61.9	71.2	67.8	
2	59.9	60.4	60.6	61.9	63.3	63.8	66.8	64.1	56.9	64.9	69.7	68.3	
3	64.5	57.7	59.3	63.5	63.9	59.9	60.3	71.7	62.9	56.6	47.9	57.4	
4	57.0	60.4	55.0	64.8	62.2	62.3	59.3	65.7	60.7	55.1	70.1	61.4	
5	63.5	61.0	56.2	64.6	66.2	63.3	55.4	70.2	61.5	59.9	66.1	61.3	
6	60.3	59.6	56.1	65.7	65.5	61.9	59.9	64.1	56.1	62.7	61.8	67.0	
7	58.8	63.7	58.2	60.6	63.5	61.6	60.9	63.3	64.0	63.6	60.3	66.2	
8	61.2	58.0	59.5	57.1	64.1	64.2	59.7	65.0	58.0	62.5	70.5	66.7	
9	53.6	61.6	58.1	56.5	64.6	66.2	61.8	61.8	61.3	61.8	66.0	65.1	
10	60.0	59.2	60.8	58.4	64.9	62.6	63.9	63.6	56.4	61.2	67.2	61.0	
11	59.3	56.6	62.0	61.6	67.0	62.5	66.1	62.1	55.8	66.1	65.4	57.8	
12	55.4	53.3	55.5	67.1	63.1	66.1	59.0	63.4	58.3	67.3	62.2	59.4	
13	54.0	58.3	61.4	63.8	62.7	65.4	73.0	63.7	65.6	65.2	63.5	67.3	
14	61.9	61.0	60.1	66.9	62.3	57.6	62.8	64.3	62.2	58.9	60.9	69.7	
15	58.3	62.3	54.2	65.2	63.4	61.4	60.6	60.6	64.7	61.8	65.2	67.7	
16	56.3	61.0	58.3	69.7	63.4	63.5	61.3	68.8	60.1	62.9	66.4	63.9	
17	53.0	65.0	52.4	62.1	62.2	64.8	59.0	59.5	62.4	64.8	69.3	62.3	
18	61.2	61.9	54.0	59.6	62.9	61.6	62.4	62.1	62.4	62.4	69.5	60.4	
19	66.6	56.9	63.9	63.5	65.8	65.4	66.6	61.3	62.2	59.4	73.4	60.6	
20	62.5	57.7	55.0	64.0	63.6	63.5	64.8	61.2	59.9	60.1	61.3	64.4	
21	62.3	60.1	52.8	62.7	65.8	62.7	64.2	64.2	61.2	65.6	70.3	62.0	
22	63.9	57.1	61.6	64.7	60.9	63.4	63.3	61.0	60.2	65.3	60.9	57.6	
23	56.7	64.7	64.0	60.7	56.8	61.9	60.3	59.3	64.3	61.4	61.3	60.5	
24	62.2	60.6	64.4	63.4	62.8	59.5	45.7	63.4	61.0	47.9	57.6	54.0	
25	64.1	61.0	58.7	65.3	64.1	64.8	66.3	61.3	67.3	65.1	60.1	45.7	
26	68.1	57.2	57.8	67.6	62.5	65.3	66.2	57.6	59.2	67.0	65.4	58.6	
27	57.3	55.7	60.5	66.0	62.0	67.0	69.3	62.4	55.4	64.8	60.3	57.2	
28	58.2	59.4	62.6	67.1	62.7	58.0	67.9	59.8	60.5	62.8	61.7	63.7	
29	59.2		64.6	65.3	63.5	63.9	67.3	59.1	62.2	66.0	62.5	56.0	
30	61.8		63.4	62.9	60.8	66.7	64.2	60.1	59.2	61.1	68.2	59.7	
31	57.9		62.8		66.4		68.5	63.9		64.4		59.1	Annual Summary
Avg	60.1	59.6	59.1	63.2	63.5	63.2	62.8	63.1	60.7	62.3	64.5	61.6	62.0
Min	53.0	53.3	52.4	54.8	56.8	57.6	45.7	57.6	55.4	47.9	47.9	45.7	45.7
Max	68.1	65.0	64.6	69.7	67.0	67.0	73.0	71.7	67.3	67.3	73.4	69.7	73.4

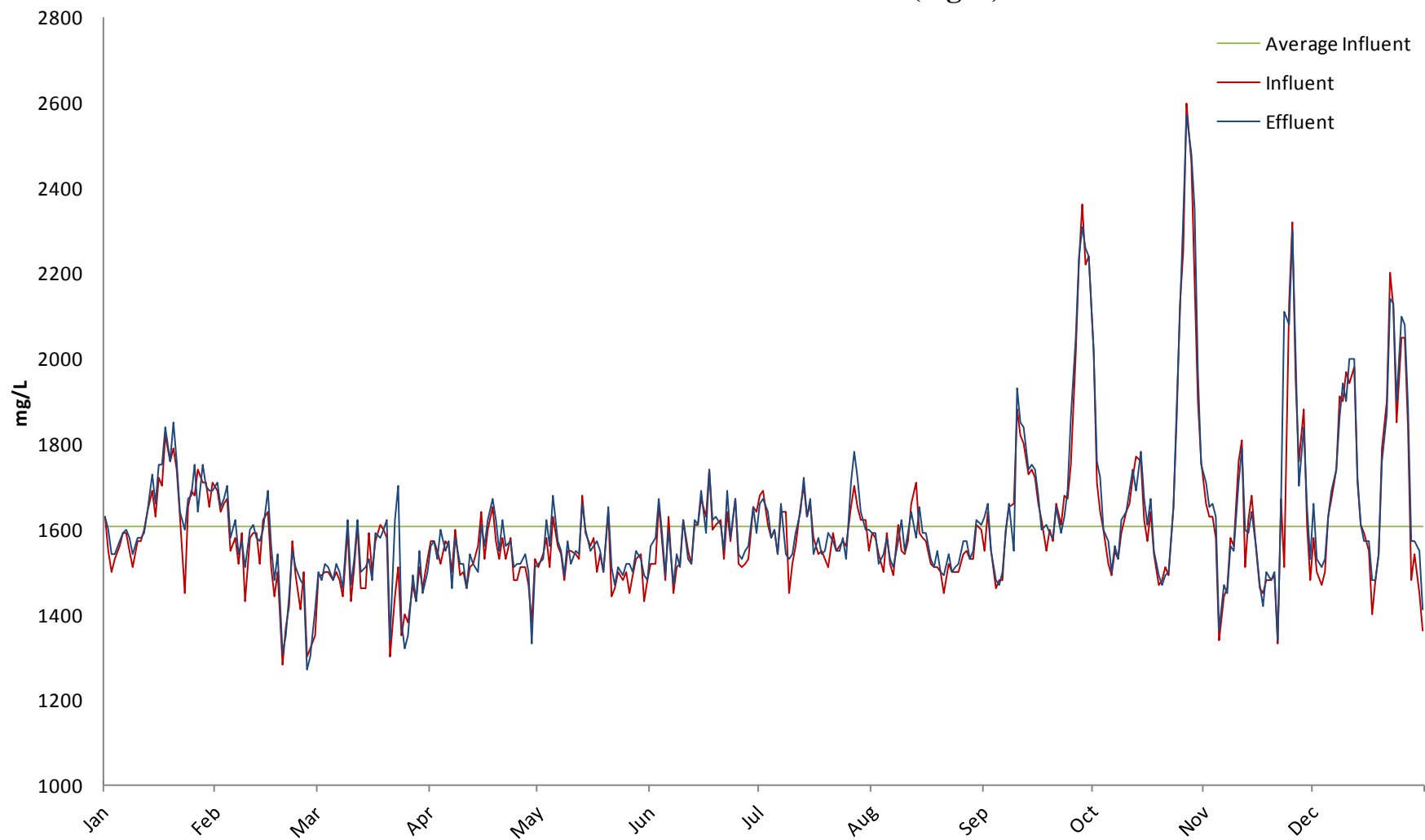
Point Loma Wastewater Treatment Plant 2011 BOD Removal (%) Systemwide



Point Loma Wastewater Treatment Plant
2011 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	66.4	62.1	60.0	58.4	68.3	67.4	61.8	68.6	62.0	64.3	73.5	70.8	
2	62.8	63.1	59.7	65.2	66.2	66.0	68.5	67.1	60.4	67.1	71.7	70.9	
3	66.6	61.1	62.3	66.7	66.9	62.6	63.3	74.3	65.5	59.6	51.8	60.8	
4	61.6	62.8	59.1	67.3	64.8	63.1	61.5	68.8	63.2	58.4	72.2	63.9	
5	65.7	64.6	60.2	68.5	68.5	66.3	58.5	72.7	62.2	63.3	67.6	63.8	
6	62.2	62.8	59.8	67.2	67.7	64.3	61.0	66.1	59.1	65.1	64.4	69.1	
7	63.6	66.7	61.3	64.7	66.0	64.8	60.2	65.7	66.8	65.2	63.2	68.6	
8	63.7	61.6	62.9	61.4	66.6	67.4	60.9	67.9	60.5	65.3	72.3	69.1	
9	57.7	64.5	62.0	60.3	66.3	67.8	64.2	64.5	63.6	65.5	68.8	67.6	
10	63.3	62.5	63.7	62.2	66.9	65.6	67.0	66.1	59.8	64.2	69.7	63.9	
11	60.2	60.6	65.7	65.2	69.2	65.5	67.7	64.5	58.7	66.8	68.1	59.6	
12	59.8	57.9	59.3	68.8	65.4	68.8	59.6	66.0	61.0	69.4	65.2	61.7	
13	58.8	61.8	64.0	66.5	65.3	67.8	74.3	62.3	67.2	67.8	66.1	67.2	
14	65.3	63.9	63.1	69.7	65.0	60.5	65.5	62.5	64.0	61.7	64.0	71.0	
15	63.3	64.2	59.7	68.3	65.8	63.3	62.8	60.7	67.8	64.6	67.3	69.7	
16	60.9	58.9	62.1	71.7	65.7	65.6	64.2	71.1	62.8	65.6	69.3	66.5	
17	56.6	61.0	57.1	65.8	65.2	66.9	62.1	61.5	64.6	65.4	71.7	65.0	
18	64.0	63.1	59.0	63.3	65.8	64.1	64.0	65.2	64.4	65.0	71.3	62.6	
19	68.1	60.8	66.9	66.4	67.8	67.7	68.3	64.9	64.8	62.6	74.5	63.3	
20	65.7	60.4	59.5	67.3	65.2	66.2	66.1	62.0	62.4	63.7	64.0	66.9	
21	65.4	62.6	56.2	66.1	68.3	65.9	64.8	64.3	63.7	66.1	71.7	64.6	
22	67.2	60.5	63.9	67.5	63.6	66.0	65.4	63.7	62.3	69.4	64.5	60.2	
23	60.6	67.8	66.4	64.2	59.6	63.0	63.3	63.5	66.7	62.2	64.1	63.4	
24	64.7	63.9	66.3	66.3	65.2	61.8	49.9	66.7	63.7	48.9	60.7	57.3	
25	66.6	64.1	62.6	68.2	66.1	67.4	68.4	64.5	65.5	67.9	63.9	49.8	
26	70.4	60.2	62.1	70.7	65.2	67.5	68.3	60.6	61.3	67.4	67.6	59.3	
27	61.3	57.4	63.9	69.1	64.6	67.4	71.4	64.1	59.0	67.3	63.7	59.8	
28	61.9	61.6	64.8	69.6	65.6	59.4	70.2	62.7	62.4	65.6	64.5	65.9	
29	63.2		66.9	68.5	65.9	63.1	69.7	62.5	64.3	68.8	64.7	58.9	
30	65.3		66.3	66.7	62.9	65.0	67.0	63.5	62.7	63.8	70.1	62.7	Annual
31	60.9		65.8		69.0		70.8	65.8		66.9		61.7	Summary
Avg	63.4	62.2	61.9	66.3	66.0	65.4	64.4	65.5	63.1	64.5	67.1	64.4	64.5
Min	56.6	57.4	56.2	58.4	59.6	59.4	49.9	60.6	58.7	48.9	51.8	49.8	48.9
Max	70.4	67.8	66.9	71.7	69.2	68.8	74.3	74.3	67.8	69.4	74.5	71.0	74.5

Point Loma Wastewater Treatment Plant 2011 Total Dissolved Solids (mg/L)



Point Loma Wastewater Treatment Plant

2011 Total Dissolved Solids (mg/L)

Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec			
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff		
1	1630	1630	1690	1710	1490	1500	1570	1560	1510	1520	1520	1560	1680	1660	1590	1590	1550	1630	2020	2020	1660	1710	1580	1660		
2	1550	1600	1640	1650	1490	1480	1570	1570	1540	1530	1520	1580	1690	1670	1580	1590	1640	1660	1710	1760	1630	1650	1500	1530		
3	1500	1540	1660	1670	1500	1520	1550	1530	1580	1620	1660	1670	1610	1640	1540	1520	1550	1550	1640	1720	1630	1660	1470	1510		
4	1530	1540	1670	1700	1500	1510	1520	1600	1510	1560	1570	1590	1580	1580	1500	1540	1460	1480	1600	1600	1580	1630	1500	1530		
5	1560	1570	1550	1580	1480	1480	1570	1550	1630	1680	1480	1490	1600	1600	1590	1580	1480	1470	1520	1570	1340	1360	1630	1630		
6	1590	1590	1580	1620	1500	1520	1560	1570	1560	1570	1630	1600	1540	1540	1520	1530	1480	1500	1490	1500	1440	1470	1670	1690		
7	1590	1600	1520	1540	1480	1500	1500	1460	1540	1550	1450	1470	1640	1660	1490	1510	1600	1590	1550	1560	1460	1450	1740	1740		
8	1550	1580	1590	1570	1440	1460	1600	1580	1480	1490	1510	1540	1640	1540	1610	1570	1650	1660	1530	1530	1580	1560	1910	1860		
9	1510	1540	1430	1510	1600	1620	1490	1520	1550	1570	1520	1510	1450	1530	1550	1620	1660	1550	1590	1620	1560	1550	1900	1940		
10	1570	1580	1580	1600	1430	1470	1500	1520	1550	1520	1620	1620	1520	1540	1540	1550	1880	1930	1640	1640	1760	1710	1970	1900		
11	1570	1580	1590	1610	1510	1530	1460	1460	1540	1550	1550	1530	1560	1590	1570	1590	1820	1850	1660	1690	1810	1790	1940	2000		
12	1600	1590	1590	1580	1610	1620	1510	1540	1530	1540	1520	1520	1650	1640	1660	1640	1800	1840	1720	1740	1510	1600	1980	2000		
13	1640	1640	1520	1570	1460	1500	1520	1520	1680	1660	1610	1620	1700	1720	1710	1580	1730	1740	1770	1690	1620	1590	1710	1720		
14	1690	1730	1620	1600	1460	1510	1560	1500	1590	1600	1610	1610	1630	1630	1590	1650	1740	1750	1760	1780	1680	1640	1610	1610		
15	1630	1660	1640	1690	1590	1530	1640	1610	1560	1550	1670	1690	1660	1670	1580	1590	1720	1740	1620	1670	1540	1550	1590	1570		
16	1720	1750	1510	1560	1500	1480	1530	1560	1580	1560	1630	1590	1580	1540	1570	1590	1660	1680	1570	1610	1460	1470	1550	1570		
17	1700	1750	1440	1480	1570	1590	1600	1620	1500	1570	1740	1740	1540	1580	1520	1530	1620	1600	1640	1670	1450	1420	1400	1480		
18	1820	1840	1500	1540	1610	1580	1650	1670	1540	1550	1600	1620	1550	1540	1510	1510	1550	1610	1540	1550	1480	1500	1480	1480		
19	1760	1760	1280	1310	1600	1600	1570	1620	1500	1500	1610	1630	1530	1550	1510	1550	1600	1590	1470	1490	1480	1480	1540	1540		
20	1790	1850	1370	1350	1580	1620	1530	1550	1640	1650	1620	1610	1510	1590	1500	1500	1570	1580	1480	1470	1490	1500	1790	1760		
21	1740	1760	1420	1440	1300	1340	1580	1620	1440	1510	1530	1550	1590	1570	1450	1490	1660	1650	1510	1490	1330	1340	1900	1870		
22	1630	1640	1570	1550	1440	1620	1530	1560	1460	1470	1640	1690	1550	1550	1520	1540	1610	1590	1490	1500	1670	1650	2200	2140		
23	1450	1600	1490	1510	1510	1700	1580	1570	1500	1510	1570	1580	1560	1550	1500	1500	1680	1630	1650	1650	1510	2110	2120	2130		
24	1650	1670	1410	1480	1350	1380	1480	1510	1480	1490	1670	1670	1570	1580	1500	1510	1670	1690	1860	1890	2130	2080	1850	1900		
25	1690	1680	1500	1470	1400	1320	1480	1520	1500	1520	1520	1540	1560	1530	1500	1520	1750	1860	2130	2110	2320	2300	2050	2100		
26	1680	1750	1300	1270	1380	1350	1510	1520	1450	1520	1510	1530	1650	1710	1540	1570	2010	2050	2250	2330	1950	2010	2050	2080		
27	1740	1640	1320	1300	1470	1490	1510	1540	1490	1500	1520	1550	1700	1780	1550	1570	2230	2240	2600	2570	1760	1700	1840	1890		
28	1710	1750	1350	1410	1430	1430	1470	1500	1530	1550	1530	1560	1650	1720	1530	1530	2360	2310	2460	2480	1880	1840	1480	1570		
29	1710	1700			1510	1550	1380	1330	1540	1530	1650	1650	1620	1640	1530	1550	2220	2260	2180	2350	1610	1650	1540	1570		
30	1650	1690			1460	1450	1530	1510	1430	1490	1640	1590	1620	1600	1610	1620	2240	2240	1900	1970	1480	1530	1450	1550		
31	1710	1690			1530	1500			1480	1480			1550	1600	1600	1610			1760	1750			1360	1410		
	Summary																									
																							Influent	Effluent		
Avg	1641	1661	1512	1531	1490	1508	1535	1543	1529	1545	1581	1590	1596	1608	1550	1559	1740	1751	1752	1773	1627	1650	1719	1740	1606	1622
Min	1450	1540	1280	1270	1300	1320	1380	1330	1430	1470	1450	1470	1450	1530	1450	1490	1460	1470	1470	1470	1330	1340	1360	1410	1280	1270
Max	1820	1850	1690	1710	1610	1700	1650	1670	1680	1680	1740	1740	1700	1780	1710	1650	2360	2310	2600	2570	2320	2300	2200	2140	2600	2570

Point Loma Wastewater Treatment Plant 2011 Chlorine (mg/L)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.00	NR	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	NR	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.36	NR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	NR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.17	NR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.12	NR	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.08	NR	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	NR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	NR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	NR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	NR	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.14	NR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.42	NR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
14	0.00	NR	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	NR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17
16	0.00	NR	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	NR	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.14	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.19	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.00	
22	0.00	0.38	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.51	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Annual Summary
Average	0.04	0.10	0.13	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.03
Minimum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum	0.42	0.38	1.12	0.54	0.10	0.00	0.00	0.00	0.00	0.00	0.93	0.17	1.12
Total	1.29	1.13	4.12	0.81	0.10	0.00	0.00	0.00	0.00	0.00	0.93	0.21	8.59

NR = Not Required

Point Loma Wastewater Treatment Plant 2011 Chlorine Instantaneous Maximum (mg/L)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	-		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Annual Summary
Avg	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Min	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Max	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Continuous monitoring was initiated on February 1st. To ensure daily monitoring of chlorine residual, during periods when the continuous monitoring equipment was off-line or down for maintenance, monitoring of chlorine was accomplished by the on-site laboratory following the schedule previously stipulated in Addendum No. 2 of Order R9-2002-0025.

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F. Toxicity Bioassays

Toxicity Testing: Point Loma Wastewater Treatment Plant 2011

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. R9-2009-0001) 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 2011.

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 °C until test initiation. All tests were initiated within 36 hours of sample collection. The effluent exposure series consisted of 3.88, 7.75, 15.5, 31.0, and 62.0% (nominal) for the acute tests and 0.15, 0.27, 0.49, 0.88, and 1.56% for the chronic tests. 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 for test initiation within 96 hours of collection or frozen to produce hypersaline brine. The receiving water samples were collected

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from a depth of 2m and stored at 4°C until test initiation. The station coordinates are as follows:

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

Dilution water for the acute and chronic reference toxicant tests was obtained from the Scripps Institution of Oceanography (SIO), filtered, held at 4 °C, and used within 96 hours of collection or frozen to produce hypersaline brine. Detailed descriptions for all toxicity tests are provided in the City of San Diego Toxicology Laboratory Quality Assurance Manual (City of San Diego 2012).

Acute Bioassays

Topsmelt Survival Bioassay

During the current reporting period, acute bioassays using the topsmelt *Atherinops affinis* were conducted as a part of the mandated multiple-species screening effort in January and February and subsequent routine monitoring in June and September in accordance with USEPA protocol EPA-821-R02-012 (USEPA 2002). 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 plus a negative control (i.e., SIO seawater). Test concentrations consisted of 56, 100, 180, 320, and 560 µg/L copper. Dilution water was obtained from SIO, filtered, held at 4 °C, 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%. Data were analyzed using a combination of multiple comparison and point estimation methods prescribed by USEPA (1993). ToxCalc (Tidepool Scientific Software 2002) and CETIS (Tidepool Scientific Software 2010) were used for all statistical analyses. In addition, all multi-concentration tests conducted according to EPA-821-R02-012 are subjected to an evaluation of the concentration-response relationship.

Mysid Survival Bioassay

During the current reporting period, acute bioassays using the mysid shrimp *Mysidopsis bahia*, were conducted as a part of the mandated multiple-species screening effort in January and February in accordance with USEPA protocol EPA-821-R02-012 (USEPA 2002). 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.

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Simultaneous reference toxicant testing was performed using reagent grade copper chloride plus a negative control (i.e., SIO seawater). Test concentrations consisted of 56, 100, 180, 320, and 560 µg/L copper. Dilution water was obtained from SIO, filtered, held at 4 °C, 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%. Data were analyzed using a combination of multiple comparison and point estimation methods prescribed by USEPA (1993). ToxCalc (Tidepool Scientific Software 2002) and CETIS (Tidepool Scientific Software 2010) were used for all statistical analyses. In addition, all multi-concentration tests conducted according to EPA-821-R02-012 are subjected to an evaluation of the concentration-response relationship.

Chronic Bioassays

Kelp Germination and Growth Test

Chronic bioassays using the giant kelp *Macrocystis pyrifera* were conducted each month during 2011 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 exposure series consisted of 5.6, 10, 18, 32, 100, and 180 µg/L copper. A SIO seawater control was also tested.

At the end of the exposure period, 100 randomly-selected 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.

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” (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 once each month from January to October, 2011 in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). Due to a region-wide shortage of gravid organisms, no red abalone tests were conducted during November or December.

Test organisms were purchased from Cultured Abalone (Goleta, California) and/or American Abalone Farm (Davenport, 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 °C. For each test event, spawning was induced in 6-10 abalones in gender-specific vessels.

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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.

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

At the end of the exposure period, 100 randomly-selected embryos were examined and the number of normally and abnormally developed embryos was recorded. The percentage of normally developed embryos for each replicate was arcsine square root transformed. Data were analyzed in accordance with “Flowchart for statistical analysis of red abalone *Haliotis rufescens*, development data” (USEPA 1995). ToxCalc (Tidepool Scientific Software 2002) and CETIS (Tidepool Scientific Software 2010) were used for all statistical analyses.

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 re-screening effort in January 2011 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).

At test initiation, ten randomly-selected larvae were added to each test replicate and exposed to the effluent series for seven days. Test solutions were renewed daily and the animals were fed twice each day. All animals were examined for evidence of mortality and abnormal during the solution renewal. A receiving water control was also tested.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. The exposure series consisted of 32, 56, 100, 180, and 320 µg/L copper. A SIO seawater control was also tested.

Upon conclusion of the exposure period, percent survival and dry biomass were recorded. Data were analyzed in accordance with “Flowchart for statistical analysis of the topsmelt, *Atherinops affinis*, larval survival data” and “Flowchart for statistical analysis of the topsmelt, *Atherinops affinis*, larval growth data” (USEPA 1995). ToxCalc (Tidepool Scientific Software 2002) and CETIS (Tidepool Scientific Software 2010) were used for all statistical analyses.

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Purple Sea Urchin Fertilization Bioassay

Chronic bioassays using the purple sea urchin *Strongylocentrotus purpuratus* were conducted as an alternate to the red abalone fertilization bioassay during months in which gravid red abalones were not available or of questionable quality. All tests were conducted in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995).

Test organisms were obtained from the Point Loma kelp beds by City of San Diego personnel and delivered to the CSDTL immediately following collection. The urchins were evaluated for health and evidence of spawning prior to being placed in natural seawater tanks and held at 15 °C. For each test event, spawning was induced in at least 6 urchins and gametes from each animal were examined for quantity and quality. Eggs from at least two females and sperm from at least two males were used to create separate egg and sperm stocks. Density of the sperm and egg stocks were separately determine using a hemacytometer and a well slide, respectively.

Test initiation began upon delivery of 90,000 sperm into each test replicate. Following a 20-minute sperm-only exposure, 2,000 eggs were delivered into each test replicate and incubated for an additional 20 minutes to allow fertilization. A receiving water control was also tested.

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. The exposure series consisted 10, 18, 32, 56, 100, and 180 µg/L copper. A SIO seawater control was also tested.

At the end of the test period, 100 randomly-selected eggs were examined and the number of fertilized and unfertilized eggs was recorded. The percentage of fertilized eggs for each replicate was arcsine square root transformed. Data were analyzed in accordance with “Flowchart for statistical analysis of sea urchin and sand dollar fertilization data” (USEPA 1995). 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 2011, the City completed the final two of three mandated acute screening events using the topsmelt and mysid. The results showed greater sensitivity in the topsmelt tests to PLWTP effluent when compared to the mysid tests. Therefore, the City conducted all subsequent routine acute toxicity monitoring tests with the topsmelt. All tests met the acceptability criterion of >90% control survival and demonstrated compliance with permit standards (Table T.1).

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Chronic Toxicity of PLWTP Effluent

In 2011, the City completed the last of three mandated chronic screening events using the giant kelp, red abalone and topsmelt. The results showed the greatest sensitivity in the giant kelp tests to PLWTP effluent when compared to the other methods. Therefore, the City conducted all subsequent routine chronic toxicity monitoring tests with the giant kelp as the primary test species.

The City also conducted chronic bioassays using the red abalone 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). Purple sea urchin chronic bioassays were conducted as an alternate to the red abalone fertilization bioassay during months in which gravid red abalones were not available or of questionable quality. All valid tests from 2011 were within compliance limits.

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TABLE T.1

Results of 2011 PLWTP effluent acute toxicity tests. Data are presented as acute toxic units (TUa).

Sample Date	Topsmelt 96-Hour Bioassay	Mysid 96-Hour Bioassay
01/23/2011	2.02	1.64
02/13/2011	3.27	2.65
06/12/2011	3.32	-
09/18/2011	2.53	-
N	4	2
No. in compliance	4	2
Mean TUa	2.79	2.15

NPDES permit limit: 6.42 TUa

TABLE T.2

Results of 2011 PLWTP effluent chronic toxicity tests. Data are presented as chronic toxic units (TUc).

Sample Date	Giant Kelp		Red Abalone		Topsmelt		Purple Urchin
	Germination	Growth	Development		Survival	Growth	Fertilization
			Exclusive	Inclusive			
1/10/2011	64	64	(*)	64	64	64	-
2/7/2011	64	64	64	64	-	-	-
3/7/2011	-	-	64	64	-	-	-
3/10/2011	64	64	-	-	-	-	-
4/12/2011	N.V.	N.V.	64	64	-	-	-
4/25/2011	N.V.	N.V.	-	-	-	-	-
5/2/2011	64	64	-	-	-	-	-
5/16/2011	64	64	64	64	-	-	-
6/7/2011	64	114	-	-	-	-	-
6/8/2011	-	-	64	64	-	-	-
7/12/2011	64	64	-	-	-	-	-
7/13/2011	-	-	64	64	-	-	114
8/9/2011	64	64	-	-	-	-	-
8/11/2011	-	-	64	64	-	-	-
9/12/2011	64	64	-	-	-	-	-
9/13/2011	-	-	64	64	-	-	-
10/10/2011	114	64	-	-	-	-	-
10/11/2011	-	-	64	64	-	-	-
11/14/2011	64	64	G.A.N.A.	G.A.N.A.	-	-	64
12/12/2011	-	-	G.A.N.A.	G.A.N.A.	-	-	64
12/20/2011	64	64	G.A.N.A.	G.A.N.A.	-	-	-
N	12	12	9	10	1	1	3
No. in compliance	12	12	9	10	1	1	3
Mean TUc	68	68	64	64	64	64	81

NPDES permit limit: 205 TUc

N.V.: Not valid

G.A.N.A.: Gravid animals not available

(*): Unicellular embryos were detected in less than 2% of the total observations; therefore, no exclusions were made.

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G. 6-Year Tables

ARSENIC (ug/L) 2006

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

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

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

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

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

ARSENIC (ug/L) 2011

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Eff	
1	1.16	0.82	1.33	0.99	1.48	0.97	1.20	0.96	1.20	0.90	1.33	0.81	0.77	0.68	0.84	0.66	1.03	0.94	1.58	1.38	1.30	0.77	1.06	0.79
2	1.07	0.53	1.08	0.73	1.34	0.90	1.10	0.80	0.94	1.00	1.33	0.84	0.43	0.59	0.58	0.70	1.09	0.94	1.26	1.24	1.25	0.84	1.05	0.74
3	3.08	1.54	0.98	0.82	1.90	1.17	0.80	0.80	0.91	0.92	1.14	0.76	0.59	0.62	0.69	0.64	1.47	1.04	1.27	1.28	1.13	0.95	1.18	0.82
4	1.56	0.82	2.00	1.46	1.13	0.97			1.32	0.92	1.09	0.65	0.51	0.51	0.88	0.76	1.20	0.90	1.18	1.26	1.04	0.93	1.18	0.71
Avg	1.72	0.93	1.35	1.00	1.46	1.00	1.03	0.85	1.09	0.94	1.22	0.77	0.58	0.60	0.73	0.70	1.20	0.96	1.32	1.29	1.18	0.87	1.12	0.77

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CADMIUM (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	ND	0.2	0.2	ND	ND	0.9	0.3	ND	0.1	0.1	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	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	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	<0.5	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	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	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

CADMIUM (ug/L) 2011																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	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
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND

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CHROMIUM (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	1.4	1.9
2	7.4	ND	4.2	1.8	5.8	1.8	7.7	<1.2	5.1	ND	7.3	ND	11.2	ND	5.7	ND	7.2	ND	10.6	2.2	11.6	1.5	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	ND	ND	4.9	ND	ND	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	5.5	<1.2	8.5	2.3	6.3	ND	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	2.0	2.0	2.0	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	ND	2.0
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

CHROMIUM (ug/L) 2011																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	5.6	1.3	6.2	ND	8.1	2.5	7.3	2.2	6.6	1.7	6.4	1.8	4.0	<1.2	4.4	1.6	5.7	ND	7.1	1.6	7.2	1.6	5.8	1.5
2	9.7	2.0	7.5	1.6	4.8	1.9	7.4	<1.2	6.3	1.7	5.7	3.0	3.7	ND	4.9	1.5	7.0	1.5	6.5	2.2	7.3	1.8	4.0	ND
3	5.1	1.8	8.8	1.8	3.4	1.2	5.6	1.6	6.0	1.5	6.1	1.9	4.3	1.8	3.3	1.5	8.0	2.0	7.3	ND	6.6	2.7	5.2	ND
4	6.0	2.0	8.0	3.8	4.7	ND			7.0	2.0	5.8	1.6	5.4	ND	5.5	1.7	7.5	2.2	10.3	1.3	6.7	1.4	5.0	2.9
Average	6.6	1.8	7.6	1.8	5.3	1.4	6.8	1.3	6.5	1.7	6.0	2.1	4.4	0.5	4.6	1.6	7.1	1.4	7.8	1.3	7.0	1.9	5.0	1.1

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COPPER (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	13	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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

COPPER (ug/L) 2011																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	112.0	24.7	102.0	44.0	120.0	29.2	108.0	25.1	147	16.4	141	19	85.7	28.7	108.0	14.1	92.4	17.7	148.0	16.9	124.0	14.2	115.0	15.4
2	147.0	19.4	105.0	21.2	88.2	26.2	96.7	22.3	120	27.3	117	20.5	70.6	23.2	92.8	14.5	110.0	14.7	80.9	17.8	136.0	17.2	87.4	20.2
3	61.7	15.4	101.0	20.9	78.6	18.5	115.0	20.9	128	30.9	95.3	21.9	93.2	16.3	56.7	18.0	137.0	17.5	112.0	16.5	79.3	15.6	105.0	19.0
4	91.7	20.8	74.7	24.4	105.0	17.3			93	22.3	105	19.3	127	16.9	83.2	17.9	116.0	19.6	106.0	15.2	91.5	20.8	101.0	19.1
Average	103.1	20.1	95.7	27.6	98.0	22.8	106.6	22.8	122.0	24.2	114.6	20.2	94.1	21.3	90.9	16.8	113.9	17.4	111.7	16.6	107.7	17.0	102.1	18.4

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LEAD (ug/L) 2006

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

LEAD (ug/L) 2007

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	4.6	ND	ND	ND	6.6	ND	3.1	ND	ND	ND	2.9	ND	ND	ND	3.7	ND	ND	ND	3.8	ND	2.9	ND	ND	ND
2	ND	ND	ND	ND	5.8	ND	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

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	2.4	ND	ND	3.4	ND	4.8	ND	ND	ND
2	2.9	ND	5.3	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	2.9	ND	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	3.3	ND	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	3.3	ND	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	2.98	ND	0.6	ND	ND	3.23	ND	3.7	0	4.0	ND

LEAD (ug/L) 2009

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	5.3	ND	2.9	ND	3.1	ND	3.3	ND	3.3	ND	3.4	ND	ND	ND	7.9	ND	3.0	ND	2.7	ND	ND	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	2.3	ND	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

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	3.2	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	ND	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	ND	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

LEAD (ug/L) 2011

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	3.2	ND	5.0	6.0	2.8	ND	2.9	ND	6	2.1	4.6	ND	2.4	ND	2.4	ND	2.8	ND	4.2	ND	ND	ND	ND	ND
2	4.4	ND	5.1	<2.0	2.4	ND	2.1	ND	4.5	ND	3.2	<2.0	2.1	ND	2.8	ND	3.7	ND	ND	ND	2.6	ND	3.5	ND
3	2.5	ND	4.6	3.3	2.1	ND	2.8	ND	4.4	ND	2.9	ND	2.6	ND	2.6	ND	5.0	ND	3.6	ND	ND	ND	ND	ND
4	4.2	ND	4.8	ND	ND	ND			2.8	2.5	4.4	ND	3.7	ND	2.5	ND	6.7	ND	2.4	ND	ND	ND	ND	ND
Average	3.6	ND	4.9	2.3	1.8	ND	2.6	ND	4.4	1.2	3.8	0.0	2.7	ND	2.8	ND	4.6	ND	2.6	ND	0.7	ND	0.3	ND

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NICKEL (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	19	7	9	8	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

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	10	6	23	17	8	7	16	10	11	7	11	7	10	6	10	9	17	14	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

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	11	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

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	6	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

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	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

NICKEL (ug/L) 2011

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	
1	7.5	4.8	8.6	5.3	16.1	11.1	13.5	9.4	13.6	5.3	11.3	7.5	ND	ND	ND	ND	11.3	7.3	10.8	7.7	10.7	6.7	11.3	7	
2	16.4	9.9	9.3	7	13.0	10.5	15.7	9.4	11.3	9	10.2	6.7	ND	ND	7.7	6.1	9.1	8.7	7.1	6.7	12.0	6.4	7.3	5.4	
3	8.6	5.7	12.6	7.2	9.0	6.8	8.5	5.9	10.2	7.7	9.4	7.9	ND	ND	6.5	6.8	11	8.1	10.0	7.0	12.0	9.0	9.6	4.6	
4	14.3	9.1	18.5	13.8	10.7	8.3			13.8		8.4	6.2	ND	ND	7	5.8	18.2	8.8	9.7	5.1	12.0	10.3	7.3	4.7	
Average	11.7	7.4	12.3	8.3	12.2	9.2	12.6	8.2	12.2	9.1	7.8	9.8	7.1	ND	ND	5.9	5.0	12.4	8.2	9.4	6.6	11.7	8.1	8.9	5.4

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MERCURY (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	ND	ND	0.12	ND	0.36	0.14	0.1	ND	0.12	ND	0.18	ND	ND	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	0.13	ND	0.10	ND	0.27	ND	ND	ND	0.17	ND	0.11	ND	ND	ND	0.6	ND	0.12	ND	ND	ND
2	ND	ND	ND	ND	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	ND	ND	0.16	ND	0.13	ND	ND	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	0.14	ND	ND	ND	0.10	ND	ND	0.24	ND	0.31	ND	0.13	ND	0.13	ND	0.12	ND	ND	ND	ND	ND	ND
2	0.11	ND	0.26	ND	ND	ND	0.14	ND	0.11	ND	ND	0.14	ND	0.19	ND	0.21	ND	0.13	ND	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	0.15	ND	0.21	ND	0.19	ND	0.13	ND	0.38	ND	ND	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	0.14	ND	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	0.0625	0.00815
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	ND	ND	0.27	ND	0.17	ND	0.09	ND	0.06	0.00405	0.05	0.00632	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

MERCURY (ug/L) 2011																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	0.092	0.010	0.0544	0.00863	0.291	0.009	0.120	0.00908	0.14	0.0125	0.09	0.0088	0.16	0.00472	0.084	0.00584	0.13	0.0075	0.1	0.004	0.09	0.00627
2	0.99	ND	0.143	0.003	0.0719	0.00593	0.132	0.007	0.110	0.00634	0.487	0.00575	0.22	0.00664	0.06	0.00192	0.197	0.0073	0.06	0.0086	0.1	0.019	0.08	0.00698
3	0.25	ND	0.120	0.008	0.0394	0.00565	0.258	0.008	0.072	0.00543	0.166	0.0080	0.09	0.00588	0.02	0.00212	0.185	0.00803	0.06	0.0056	0.2	0.008	0.12	0.00911
4	0.18	ND	0.092	0.016	0.1110	0.0056	0.080	0.00508	0.124	0.00442	0.18	0.00918	0.06	0.00328	0.10	0.0069	0.173	0.0292	0.08	0.0038	0.1	0.006	0.13	0.00755
Average	0.36	ND	0.11	0.01	0.07	0.01	0.23	0.01	0.10	0.01	0.23	0.01	0.14	0.01	0.08	0.004	0.16	0.01	0.08	0.01	0.13	0.01	0.1	0.01

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SILVER (ug/L) 2006

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

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

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	1.9	0.7	ND	ND	ND	0.8	ND	2.2	ND	1.3	ND	1.1	ND	1.3	<0.4	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

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

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

SILVER (ug/L) 2010

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

SILVER (ug/L) 2011

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	1.0	ND	1.0	ND	0.4	ND	0.7	ND	0.7	ND	1.1	ND	ND	ND	ND	ND	1.8	0.5	1.5	ND	0.7	ND	0.7	ND
2	1.4	ND	0.9	ND	1.1	ND	1.0	ND	1.0	ND	1.4	ND	ND	ND	0.8	ND	2.2	0.7	0.6	ND	0.6	N	1.0	ND
3	0.8	ND	0.8	ND	1.4	0.5	1.4	ND	1.4	ND	ND	ND	ND	ND	ND	ND	2.6	0.7	0.5	ND	ND	N	1.2	ND
4	ND	ND	ND	ND	1.1	ND	1.1	ND	1.1	ND	ND	ND	ND	ND	ND	ND	1.8	ND	0.7	ND	ND	N	0.6	ND
Average	0.8	ND	0.7	ND	1.0	0.1	1.1	ND	1.1	ND	0.6	ND	ND	ND	0.3	ND	2.1	0.5	0.8	ND	0.3	ND	0.9	ND

ZINC (ug/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	163	18	87	21	149	22	176	18	140	13	183	17	166	17	149	22	152	27	180	24	144	16		29
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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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

ZINC (ug/L) 2011																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	155	27	144	34	142	31	157	30	203	23	192	24	113	29	172	20	152	34	189	26	178	19	146	19
2	179	21	163	27	160	31	149	26	173	28	159	22	100	30	146	21	162	20	135	25	175	23	140	26
3	103	28	155	26	179	26	150	26	158	25	127	23	125	23	91	26	206	25	159	24	125	18	151	24
4	142	33	119	35	147	22			128	24	144	21	169	19	150	25	173	28	147	20	122	18	167	25
Average	145	27	145	31	157	28	152	27	166	25	156	23	127	25	147	24	173	27	158	24	150	20	151	24

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AMMONIA (mg/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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
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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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

AMMONIA (mg/L) 2011																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	33.9	33.6	34.2	32.2	31.3	29.7	33.8	32.5	35.2	33.0	36.0	34.1	35.9	34.1	35.8	35.0	32.0	31.1	34.9	34.2	37.4	35.0	33.5	34.5
2	32.9	33.9	35.3	35.0	32.2	30.5	33.5	33.0	36.1	34.2	38.2	37.7	32.6	33.9	35.9	35.4	35.0	33.7	32.6	31.7	34.0	33.6	31.9	33.0
3	21.6	21.7	32.8	32.8	29.4	28.8	32.8	32.2	35.3	33.6	35.2	34.4	35.5	35.2	34.4	33.3	32.2	31.9	32.6	32.4	32.6	31.8	33.7	33.1
4	29.1	29.1	27.2	26.3	31.4	30.8			36.1	34.2	36.5	34.7	36.2	35.8	33.8	33.6	33.5	32.7	34.8	33.6	36.3	34.0	32.9	33.0
Average	29.4	29.6	32.4	31.6	31.1	30.0	33.4	32.6	35.7	33.8	36.5	35.2	35.1	34.8	34.8	34.0	33.2	32.4	33.7	33.0	35.1	33.6	33.0	33.4

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CYANIDE (mg/L) 2006																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	0.002	ND	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	ND	0.002	0.002	0.002
Average	0.002	0.001	0.003	0.001	0.002	0.001	0.002	0.001	0.002	0.000	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	0.002	0.003	ND	ND	NA	NA	ND	ND	ND	ND	0.002	ND	ND	ND	ND	0.002	ND	ND	<0.002	ND	<0.002	ND
2	0.002	0.002	ND	0.002	0.003	ND	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	<0.002	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	ND	ND	0.003	0.002	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.002	ND	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	ND	0.002	ND	0.002	<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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	0.003	ND	0.002	0.003	ND	0.002	ND	0.002	0.002	0.003	ND	ND	ND	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	0.002	0.025	ND	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																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	ND	0.003
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	0.002	0.003	0.002	0.003	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	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

CYANIDE (mg/L) 2011																								
Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	0.002	0.002	0.003	0.002	0.003	0.002	0.002	0.002	0.003	0.002	0.002	0.002	ND	ND	ND	ND	ND	0.002	ND	0.002	ND	ND	0.003
2	ND	0.002	0.003	0.004	0.003	0.003	ND	0.002	0.002	0.003	ND	0.003	ND	0.002	0.002	<0.002	0.002	ND	ND	ND	ND	ND	ND	0.003
3	ND	ND	0.002	ND	0.003	0.004	0.002	0.002	0.002	0.003	ND	0.002	ND	0.002	0.003	0.003	0.002	0.002	0.002	0.002	ND	ND	ND	ND
4	0.002	0.003	ND	ND	0.002	0.002			0.003	0.004	0.003	0.004	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND	0.002	0.003
Average	0.001	0.002	0.002	0.002	0.003	0.003	0.001	0.002	0.002	0.003	0.001	0.003	0.001	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	ND	0.001	0.002

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EFFLUENT RADIATION (pCi/L) 2006																									
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC 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																									
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC 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																									
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC 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					
2			1.7	22.8					1.3	23.4					6.1	31.3					3.6	30	6.4	24	
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																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC 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																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC 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																								
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

EFFLUENT RADIATION (pCi/L) 2011																								
Week	alpha	JAN beta	alpha	FEB beta	alpha	MAR beta	alpha	APR beta	alpha	MAY beta	alpha	JUN beta	alpha	JUL beta	alpha	AUG beta	alpha	SEP beta	alpha	OCT beta	alpha	NOV beta	alpha	DEC beta
1	4.9	33.8	0.3	31.4	2.9	31.9	3.9	31.9	0	33.9	1.2	23.7	3.2	31.4	2.4	27.1	0.7	28.6	3.4	28.7	0.6	33.3	9.8	26.7
2																								
3																								
4																								
Average	4.9	33.8	0.3	31.4	2.9	31.9	3.9	31.9	0.0	33.9	1.2	23.7	3.2	31.4	2.4	27.1	0.7	28.6	3.4	28.7	0.6	33.3	9.8	26.7

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HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2006

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	ND	ND	21	ND	0.0	ND	ND	ND	21.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	20.3	4.3	11.8	3.5	ND	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

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	17	ND	ND	ND	ND	ND	ND	ND	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

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

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	5	ND	ND	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	ND	5.5	ND	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	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

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	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	6	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	7.3	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.3	ND	ND

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2011

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	23	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	ND	ND
Average	ND	ND	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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CHLORDANE & RELATED COMPOUNDS (ng/L) 2006

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 2007

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff	
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	58.0	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.5	ND	ND	ND	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2008

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff	
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	15.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	3.8	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) 2009

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 2010

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC 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	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	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	ND	ND	50.4	ND	ND	ND	ND	
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.6	ND	3.5	3.6	ND	ND

CHLORDANE & RELATED COMPOUNDS (ng/L) 2011

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff	
1	ND	ND	31.0	ND	81.1	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	7.8	ND	20.3	ND	ND	ND	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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DDT AND DERIVATIVES (ng/L) 2006

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

DDT AND DERIVATIVES (ng/L) 2007

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff	
1	ND	ND	ND	ND	ND	ND	8.0	ND	24.0	8.0	ND	15.0	ND	ND	ND	ND	18.0	ND	ND	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	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	16.0	ND	ND	ND	ND	ND	ND	ND	ND	
Average	ND	ND	ND	ND	ND	ND	11.5	1	17.3	2.0	12.3	ND	5.0	ND	ND	ND	11.3	ND	ND	ND	ND	ND	ND	ND	

DDT AND DERIVATIVES (ng/L) 2008

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	22.0	ND	ND	ND	5.0	4.0	15.0	ND	ND	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

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	27	5	ND	ND	6.0	ND	19.0	ND	ND	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	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	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

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

DDT AND DERIVATIVES (ng/L) 2011

Week	Inf	JAN Eff	Inf	FEB Eff	Inf	MAR Eff	Inf	APR Eff	Inf	MAY Eff	Inf	JUN Eff	Inf	JUL Eff	Inf	AUG Eff	Inf	SEP Eff	Inf	OCT Eff	Inf	NOV Eff	Inf	DEC Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.0	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	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2006

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	15.8	12.4	14.1	12.9	16.5	15.9	27.3	19	22	10.5	14.6	13.2	26.9	13.5	20.3	13.4	21.3	15.2	14.9	10.4	16.3	7.7	19.3	13.6
2	17.4	12.4	14.3	10.7	16.4	13.6	22.1	15.6	40.5	21.8	21.9	16.3	16.4	13.1	17	12.7	11.7	10.9	19.3	13.2	19.5	13	18.2	11.9
3	12.2	10.7	15	12.1	31.5	25.6	26.7	18.8	23.5	17.7	21.6	17.3	20.9	13.5	22.5	15.6	11.6	9.9	17.1	13.4	16.9	11.5	17.6	13.7
4	12.6	11.6	15.1	10.4			21.6	18	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

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	18.8	15.1			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

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	18.8	15.0	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

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	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

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	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			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

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2011

Week	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	20.0	16.4	20.4	17.9	17.4	10.9	19.7	19.5	23.9	21.9	23.3	13.2	31.1	19.3	26.9	16.6	21.4	18.5	19.5	18.5	26.3	20.4	20.6	18.1
2	13.4	12.3	16.2	16.3	24.3	18.3	18.7	17.2	24.0	19.3	19.9	19.3	23.0	19.1	20.8	12.1	12.7	8.0	17.9	9.7	18.8	14.1	15.8	14.4
3	5.9	5.5	21.0	17.5	13.4	14.7	21.4	18.8	21.1	17.7	20.8	16.3	15.7	15.2	22.4	9.8	19.0	16.1	21.0	16.8	16.7	15.6	18.4	15.8
4	13.2	12.8	13.7	10.3	21.8	18.6			24.5	23.6	14.2	12.9	20.7	11.8	18.8	12.8	21.4	16.8	26.8	19.5	27.1	20.4	18.9	19.2
Average	13.1	11.8	17.8	15.5	19.2	15.6	19.9	18.5	23.4	20.6	19.6	15.4	22.6	16.4	22.0	13.5	18.6	14.9	21.3	16.1	22.2	17.6	18.4	16.9

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