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 2012 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)	2012 Mass Emissions (mt/yr)	2012 Concentration	Units
Flow (MGD)			**147.9**	MGD
Total Suspended Solids	13,995	7,556	37	mg/L
BOD	–	23,690	116	mg/L
Arsenic	0.88	0.14	0.70	ug/L
Cadmium	1.4	0.00	0.00	ug/L
Chromium	14.2	0.35	1.7	ug/L
Copper	26	4.08	20	ug/L
Lead	14.2	0.00	0.0	ug/L
Mercury	0.19	0.002	0.0075	ug/L
Nickel	11.3	1.31	6.4	ug/L
Selenium	0.44	0.17	0.82	ug/L
Silver	2.8	0.00	0.00	ug/L
Zinc	18.3	5.51	27	ug/L
Cyanide	1.57	0.25	0.001	mg/L
Residual Chlorine	--	4.30	0.021	mg/L
Ammonia	8018	7,208	35.2	mg/L
Non-Chor. Phenols	2.57	3.82	18.7	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	0.00	0.0	ug/L
Bis(2-chloroethoxy) methane	1.5	0.00	0	ug/L
Bis(2-chloroisopropyl) ether	1.61	0.00	0	ug/L
Chlorobenzene	1.7	0.00	0.0	ug/L
Chromium (III)	--	--		
di-n-butyl phthalate	1.33	0.00	0	ug/L
dichlorobenzenes	2.8	0.00	0	ug/L
1,1-dichloroethylene	0.79	0.00	0	ug/L
Diethyl phthalate	6.23	1.04	5.1	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)	2012 Mass Emissions (mt/yr)	2012 Concentration	Units
Nitrobenzene	2.07	0.00	0	ug/L
Thallium	36.8	0.00	0.0	ug/L
Toluene	3.31	0.25	1.2	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	0.000	0.000	ug/L
Bis(2-chloroethyl) ether	1.61	0.00	0	ug/L
Bis(2-ethylhexyl) phthalate	2.89	0.00	0.0	ug/L
Carbon Tetrachloride	0.79	0.00	0	ug/L
Chlordane	0.014	0.0000	0	ng/L
Chloroform	2.19	1.06	5.2	ug/L
DDT	0.043	0.00	0	ng/L
1,4-dichlorobenzene	1.25	0.06	0.3	ug/L
3,3-dichlorobenzidine	4.67	0.00	0	ug/L
1,2-dichloroethane	0.79	0.00	0	ug/L
Dichloromethane (Methylene Chloride)	13.7	0.25	1.2	ug/L
1,3-dichloropropene	1.42	0.00	0	ug/L
Dieldrin	0.011	0.00	0	ng/L
2,4-dinitrotoluene	1.61	0.00	0	ug/L
1,2-diphenylhydrazine	1.52	0.00	0	ug/L
Halomethanes	5.86	1.76	8.6	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	--	0.000000000	0.000	pg/L
Tetrachloroethylene	4	0.00	0	ug/L
Toxaphene	0.068	0.00	0	ng/L
Trichloroethylene	1.56	0.00	0	ug/L
2,4,6-trichlorophenol	0.96	0.00	0	ug/L
Vinyl Chloride	0.4	0.00	0	ug/L

B. Discharge Limits

NPDES Permit No. CA0107409/RWQCB Order No. 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
Dieldrin	ng/L	8.20
2,4-dinitrotoluene	ug/L	530
1,2-diphenylhydrazine	ug/L	33
Halomethanes	ug/L	27,000
Heptachlor	ng/L	10
Hexachlorobenzene	ug/L	0.043
Hexachlorobutadiene	ug/L	2,900
Hexachloroethane	ug/L	510
Isophorone	ug/L	150,000
N-nitrosodimethylamine	ug/L	1,500
N-nitrosodiphenylamine	ug/L	510
PAHs	ug/L	1.80
PCBs	ng/L	3.90
TCDD equivalents	pg/L	0.8
Tetrachloroethylene	ug/L	410
Toxaphene	ng/L	430
Trichloroethylene	ug/L	5,500
Vinyl Chloride	ug/L	7,400

C. Influent and Effluent Data Summaries

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

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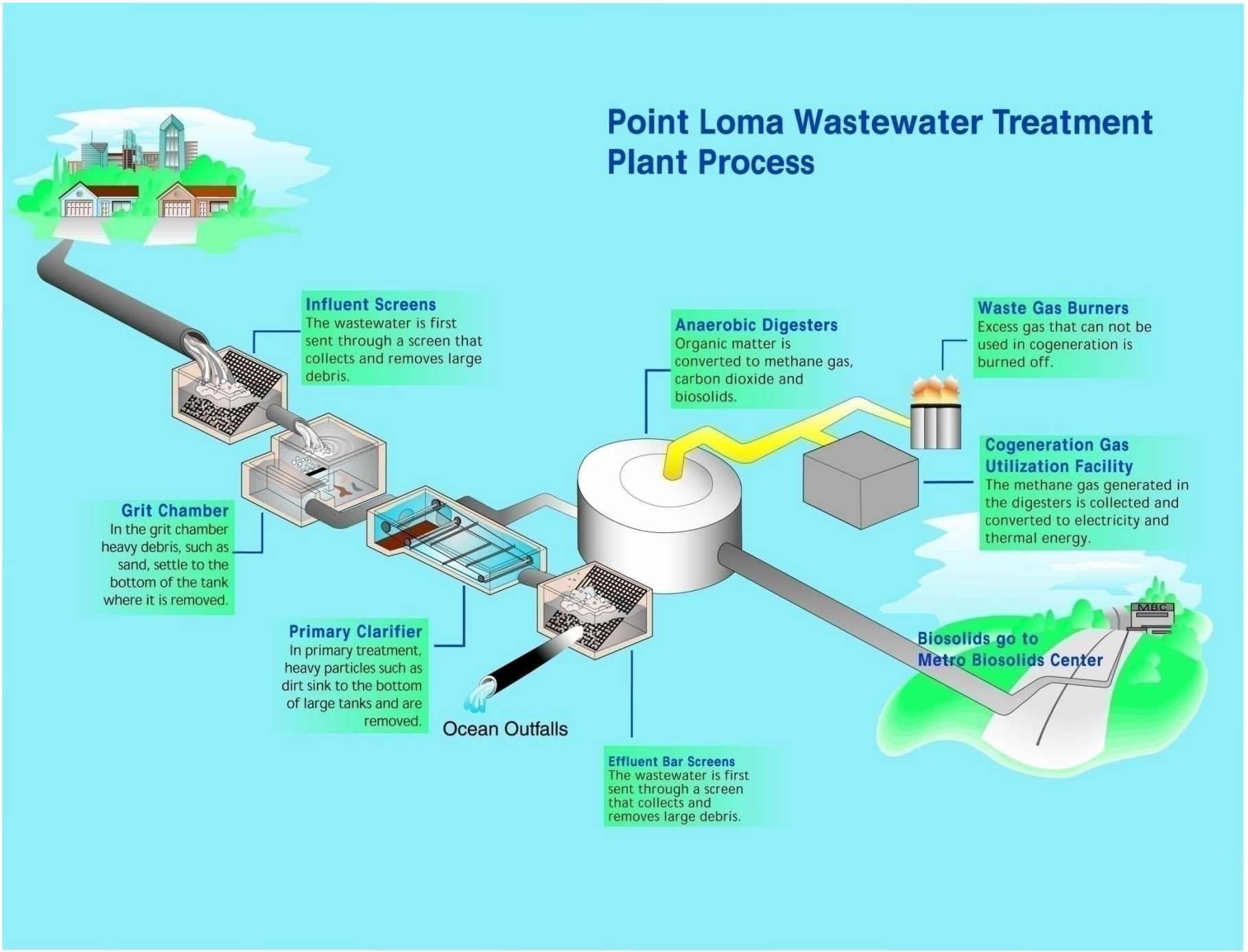
Point Loma Wastewater Treatment Plant Process
Influent Screens
The wastewater is first sent through a screen that collects and removes large debris.
Anaerobic Digesters
Organic matter is converted to methane gas, carbon dioxide and biosolids.
Waste Gas Burners
Excess gas that can not be used in cogeneration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

Point Loma Wastewater Treatment Plant

POINT LOMA WASTEWATER TREATMENT PLANT

Annual 2012

Biochemical Oxygen Demand Concentration
(24-hour composite)

	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 -2012	153.9	297	381207	118	151456	60.3
FEBRUARY -2012	149.6	290	361823	114	142234	60.7
MARCH -2012	152.8	295	375934	115	146550	61.0
APRIL -2012	152.2	303	384612	117	148514	61.4
MAY -2012	147.2	316	387937	118	144862	62.7
JUNE -2012	143.6	328	392821	116	138924	64.6
JULY -2012	144.1	325	390583	122	146619	62.5
AUGUST -2012	143.1	319	380712	117	139634	63.3
SEPTEMBER-2012	142.4	298	353910	110	130638	63.1
OCTOBER -2012	144.7	293	353592	108	130334	63.1
NOVEMBER -2012	149.3	313	389736	124	154400	60.4
DECEMBER -2012	152.2	298	378266	115	145975	61.4
Average	147.9	306	377594	116	143345	62.0

Total Suspended Solids Concentration
(24-hour composite)

	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 -2012	153.9	363	313	86.2	465920	46	36	78.3	59042
FEBRUARY -2012	149.6	354	300	84.7	441673	44	34	77.3	54897
MARCH -2012	152.8	351	304	86.6	447298	38	30	78.9	48425
APRIL -2012	152.2	375	326	86.9	476006	38	29	76.3	48235
MAY -2012	147.2	347	302	87.0	425994	34	27	79.4	41740
JUNE -2012	143.6	361	315	87.3	432342	32	25	78.1	38324
JULY -2012	144.1	394	343	87.1	473507	39	31	79.5	46870
AUGUST -2012	143.1	357	311	87.1	426063	36	29	80.6	42964
SEPTEMBER-2012	142.4	361	314	87.0	428729	36	29	80.6	42754
OCTOBER -2012	144.7	349	305	87.4	421173	34	26	76.5	41031
NOVEMBER -2012	149.3	326	288	88.3	405923	35	27	77.1	43581
DECEMBER -2012	152.2	311	268	86.2	394767	35	27	77.1	44427
Average	147.9	354	307		436616	37	29		46024

	Percent Removal TSS (%)	Percent Removal VSS (%)
JANUARY -2012	87.3	88.5
FEBRUARY -2012	87.6	88.7
MARCH -2012	89.2	90.1
APRIL -2012	89.9	91.1
MAY -2012	90.2	91.1
JUNE -2012	91.1	92.1
JULY -2012	90.1	91.0
AUGUST -2012	89.9	90.7
SEPTEMBER-2012	90.0	90.8
OCTOBER -2012	90.3	91.5
NOVEMBER -2012	89.3	90.6
DECEMBER -2012	88.7	89.9
Average	89.5	90.5

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 2012

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.
12-01	380,447	18,539	17,196	4,739	2,086	6,824	151,206	63.0	60.2	118
12-02	362,225	17,134	16,239	3,941	1,598	5,539	142,563	63.4	60.5	114
12-03	375,720	19,477	18,408	4,783	4,667	9,450	146,830	63.6	60.8	115
12-04	384,519	16,109	19,486	4,046	3,258	7,305	148,212	64.1	61.5	117
12-05	388,404	19,734	18,169	4,750	1,172	5,922	144,383	65.5	62.7	118
12-06	390,827	20,367	18,408	5,882	6,513	12,395	139,036	66.6	64.3	116
12-07	390,100	24,051	13,751	6,646	5,283	11,929	146,147	64.8	62.4	122
12-08	379,642	21,481	15,019	4,329	10,637	14,966	139,923	65.1	63.1	117
12-09	352,759	19,326	14,879	4,934	1,331	6,265	130,280	65.9	63.2	110
12-10	353,154	19,531	16,295	4,552	852	5,405	130,395	65.9	63.0	108
12-11	388,524	20,345	17,750	4,388	688	5,076	153,752	63.3	60.1	123
12-12	377,629	18,551	18,845	5,206	484	5,690	145,189	64.5	61.6	115
avg	376,996	19,554	17,037	4,850	3,214	8,064	143,160	64.6	62.0	116

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.
12-01	465,848	16,086	21,617	9,660	3,127	12,787	59,387	87.8	87.1	46
12-02	442,118	15,499	19,882	9,512	2,619	12,131	54,842	88.1	87.5	44
12-03	447,300	14,835	21,515	9,620	6,701	16,321	48,599	89.5	89.0	38
12-04	475,096	17,111	21,574	11,398	5,190	16,587	47,952	90.3	89.8	38
12-05	426,357	19,995	23,067	11,270	2,120	13,390	41,779	90.8	90.2	34
12-06	432,080	18,661	21,614	14,157	9,105	23,262	38,266	91.4	91.1	32
12-07	474,040	24,963	17,384	20,360	6,533	26,892	46,279	90.4	90.1	38
12-08	426,283	20,418	17,719	10,671	11,983	22,654	43,067	90.2	89.8	36
12-09	429,088	19,621	21,647	12,339	2,659	14,998	42,847	90.5	89.9	36
12-10	421,224	20,533	23,088	11,097	1,578	12,675	40,918	90.9	90.2	34
12-11	406,509	20,626	19,597	9,246	1,696	10,942	43,271	90.0	89.3	35
12-12	395,808	17,472	19,666	10,309	1,731	12,041	45,265	89.2	88.5	36
avg	436,813	18,818	20,698	11,637	4,587	16,223	46,039	89.9	89.4	37

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

2012 Annual

Effluent to Ocean Outfall
(PLE)

Analyte Units	pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Hexane Extractable Material (mg/L)	Temperature (C)	Floating Particulates (mg/L)	Turbidity (NTU)
JANUARY -2012	7.29	0.4	118	13.9	23.2	ND	43
FEBRUARY -2012	7.31	0.4	114	13.7	23.2	ND	39
MARCH -2012	7.32	0.2	115	11.9	23.6	ND	37
APRIL -2012	7.28	0.2	117	10.0	23.8	ND	39
MAY -2012	7.29	0.1	118	10.1	24.8	ND	40
JUNE -2012	7.30	0.2	116	9.5	26.0	ND	44
JULY -2012	7.28	0.3	122	11.7	26.9	ND	51
AUGUST -2012	7.29	0.3	117	11.8	27.6	ND	53
SEPTEMBER-2012	7.28	0.3	110	9.3	28.1	ND	46
OCTOBER -2012	7.31	0.1	108	8.2	27.4	ND	39
NOVEMBER -2012	7.31	0.2	124	10.1	26.2	ND	39
DECEMBER -2012	7.29	0.2	115	12.7	24.9	ND	36
Average	7.30	0.2	116	11.1	25.5	ND	42

Influent to Plant
(PLR)

Analyte Units	pH	Settleable Solids (ml/L)	Biochemical Oxygen Demand (mg/L)	Hexane Extractable Material (mg/L)	Temperature (C)	Floating Particulates (mg/L)	Turbidity (NTU)
JANUARY -2012	7.42	14.3	297	40.2	22.9	<1.40	135
FEBRUARY -2012	7.47	13.8	290	42.3	22.9	<1.40	133
MARCH -2012	7.47	14.1	295	41.9	23.2	<1.40	136
APRIL -2012	7.44	15.7	303	40.3	23.6	<1.40	137
MAY -2012	7.44	19.7	316	47.6	24.5	<1.40	138
JUNE -2012	7.44	19.5	328	47.5	25.6	<1.40	142
JULY -2012	7.44	19.3	325	46.2	26.3	<1.40	141
AUGUST -2012	7.42	18.9	319	45.6	27.2	<1.40	136
SEPTEMBER-2012	7.38	18.7	298	42.2	27.6	<1.40	131
OCTOBER -2012	7.47	19.6	293	42.6	27.1	<1.40	137
NOVEMBER -2012	7.43	17.8	313	43.7	26.0	<1.40	133
DECEMBER -2012	7.44	15.6	298	42.6	24.5	<1.40	129
Average	7.44	17.3	306	43.6	25.1	<1.4	136

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)

2012 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
Date/Limit:		250000		5900		7		820
JANUARY -2012	ND	ND	0.9	0.6	ND	ND	ND	ND
FEBRUARY -2012	ND	ND	1.0	0.7	ND	ND	ND	ND
MARCH -2012	ND	ND	1.1	0.5	ND	ND	ND	ND
APRIL -2012	ND	ND	1.0	0.6	ND	ND	ND	ND
MAY -2012	ND	ND	0.5	<0.4	ND	ND	ND	<0.53
JUNE -2012	ND	ND	1.0	0.6	ND	ND	<0.53	ND
JULY -2012	ND	ND	1.3	0.9	ND	ND	ND	<0.53
AUGUST -2012	ND	ND	1.1	0.8	ND	ND	ND	ND
SEPTEMBER-2012	ND	ND	1.0	0.8	ND	ND	ND	ND
OCTOBER -2012	<2.9	ND	1.0	0.8	ND	ND	0.54	<0.53
NOVEMBER -2012	ND	ND	1.1	0.8	<0.022	ND	ND	ND
DECEMBER -2012	ND	ND	0.9	0.7	ND	ND	0.54	<0.53
AVERAGE	0.0	ND	1.0	0.7	0.00	ND	0.09	0.00

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
Date/Limit:		1600		2100				1600
JANUARY -2012	6.1	1.6	91	22	5800	2620	<2	ND
FEBRUARY -2012	5.9	1.6	80	19	5440	2440	2	<2
MARCH -2012	5.3	1.9	88	17	5100	2250	2	ND
APRIL -2012	6.4	2.0	87	22	7540	2960	3	ND
MAY -2012	7.0	2.1	122	17	7220	2440	4	ND
JUNE -2012	7.4	2.0	178	19	8110	2910	4	ND
JULY -2012	5.8	2.1	189	27	8760	2740	8	ND
AUGUST -2012	5.5	1.4	115	21	7360	2560	4	<2
SEPTEMBER-2012	3.0	ND	97	18	6280	2340	2	ND
OCTOBER -2012	5.8	1.7	123	21	7020	2410	3	<2
NOVEMBER -2012	6.2	2.2	105	14	9030	2750	3	<2
DECEMBER -2012	4.4	1.3	115	22	6990	2850	2	ND
AVERAGE	5.7	1.7	116	20	7054	2606	3	0

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)

2012 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
Date/Limit:		4100		12000		540		410
JANUARY -2012	8.2	5.2	0.82	0.72	0.7	ND	ND	<3.9
FEBRUARY -2012	6.4	4.0	1.25	0.91	0.4	ND	<3.9	<3.9
MARCH -2012	7.9	5.7	1.05	0.70	0.7	ND	ND	ND
APRIL -2012	7.5	5.9	1.02	0.64	0.4	ND	<3.9	ND
MAY -2012	9.3	6.5	1.19	0.68	1.3	ND	<3.9	<3.9
JUNE -2012	12.1	9.0	1.46	0.96	ND	ND	ND	ND
JULY -2012	10.7	6.7	1.66	1.02	1.2	ND	4.1	ND
AUGUST -2012	9.0	5.7	1.49	0.87	0.8	ND	ND	ND
SEPTEMBER-2012	8.0	7.3	1.49	0.97	0.5	ND	<3.9	<3.9
OCTOBER -2012	10.4	7.6	1.06	0.67	0.9	<0.4	ND	ND
NOVEMBER -2012	10.5	6.8	1.42	0.94	0.9	<0.4	<3.9	<3.9
DECEMBER -2012	10.1	6.8	1.02	0.70	1.3	<0.4	<3.9	ND
AVERAGE	9.2	6.4	1.24	0.82	0.8	0.0	0.3	0.0

Analyte:	Zinc	Zinc	Mercury	Mercury
MDL	2.5	2.5	.5	.5
Units	UG/L	UG/L	NG/L	NG/L
Source:	PLR	PLE	PLR	PLE
Date/Limit:		15000		33000
JANUARY -2012	140	28	381	8.9
FEBRUARY -2012	127	28	83	11.2
MARCH -2012	138	25	150	8.5
APRIL -2012	151	27	103	6.7
MAY -2012	177	21	160	7.4
JUNE -2012	174	29	92	5.8
JULY -2012	220	28	142	8.1
AUGUST -2012	169	31	92	4.6
SEPTEMBER-2012	150	23	116	6.2
OCTOBER -2012	185	26	142	5.7
NOVEMBER -2012	186	24	163	9.4
DECEMBER -2012	162	32	101	7.3
AVERAGE	165	27	144	7.5

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)

2012 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		0.200
JANUARY -2012	35.1	34.6	<0.002	<0.002
FEBRUARY -2012	34.7	34.2	<0.002	<0.002
MARCH -2012	35.1	34.9	<0.002	<0.002
APRIL -2012	34.9	34.3	<0.002	<0.002
MAY -2012	37.2	36.1	ND	<0.002
JUNE -2012	36.5	35.6	<0.002	<0.002
JULY -2012	37.4	36.3	<0.002	<0.002
AUGUST -2012	36.9	36.0	<0.002	0.002
SEPTEMBER-2012	35.7	34.8	<0.002	0.003
OCTOBER -2012	40.0	34.8	0.002	0.003
NOVEMBER -2012	37.0	36.7	<0.002	0.002
DECEMBER -2012	35.7	34.1	<0.002	0.003
Average:	36.4	35.2	0.0002	0.0012

	Chlorine Residual, Total
MDL/Units	.03 MG/L
Source:	PLE
Limit:	
JANUARY -2012	<0.030
FEBRUARY -2012	<0.030
MARCH -2012	0.037
APRIL -2012	<0.030
MAY -2012	<0.030
JUNE -2012	<0.030
JULY -2012	ND
AUGUST -2012	<0.030
SEPTEMBER-2012	<0.030
OCTOBER -2012	0.115
NOVEMBER -2012	0.031
DECEMBER -2012	0.070
Average:	0.021

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

POINT LOMA WASTEWATER TREATMENT PLANT

Radioactivity

2012 Annual

Analyzed by: TestAmerica Labs

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
PLE	JANUARY -2012	-1.9±5.6	25.3±7.2
PLE	FEBRUARY -2012	2.5±1.6	33.5±6.2
PLE	MARCH -2012	4.3±6.9	34.7±8.0
PLE	APRIL -2012	2.2±4.2	25.2±5.4
PLE	MAY -2012	4.2±4.6	29.3±9.7
PLE	JUNE -2012	1.6±4.7	31.6±8.4
PLE	JULY -2012	0.5±5.5	31.4±7.2
PLE	AUGUST -2012	8.4±6.6	24.4±6.7
PLE	SEPTEMBER-2012	-0.2±6.4	28.4±7.4
PLE	OCTOBER -2012	0.6±5.2	29.2±5.6
PLE	NOVEMBER -2012	0.2±4.9	27.5±4.7
PLE	DECEMBER -2012	3.2±5.4	23.5±7.2
AVERAGE		2.1±5.1	28.7±7.0

Source	Month	Gross Alpha Radiation	Gross Beta Radiation
PLR	JANUARY -2012	2.4±6.8	31.0±7.1
PLR	FEBRUARY -2012	3.1±2.1	29.9±7.5
PLR	MARCH -2012	3.2±6.0	33.8±6.3
PLR	APRIL -2012	4.8±5.6	24.4±5.2
PLR	MAY -2012	2.6±6.5	30.0±9.9
PLR	JUNE -2012	4.2±5.6	33.2±7.8
PLR	JULY -2012	3.9±5.4	32.3±7.1
PLR	AUGUST -2012	2.0±4.5	30.4±8.3
PLR	SEPTEMBER-2012	2.6±5.2	32.2±6.8
PLR	OCTOBER -2012	2.8±5.2	30.7±5.6
PLR	NOVEMBER -2012	4.4±5.3	27.7±5.4
PLR	DECEMBER -2012	3.8±6.1	21.9±7.4
AVERAGE		3.3±5.3	29.8±7.0

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

Units in picocuries/liter (pCi/L)

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

2012 Annual

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

Note: During the months of January thru July a Varian 3800 GC-ECD / Varian 3800-Saturn 2000 was used to determined pesticide data.

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis

2012 Annual

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

Note: During the months of January thru July a Varian 3800 GC-ECD / Varian 3800-Saturn 2000 was used to determined pesticide data.

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis 608-TripleQuad

2012 Annual

Source			PLE	PLE	PLE	PLE	PLE	PLE
Month			AUG	SEP	OCT	NOV	DEC	
Analyte	MDL	Units	Avg	Avg	Avg	Avg	Avg	Average
Aldrin	3	NG/L	ND	ND	ND	ND	<3	0
Dieldrin	8	NG/L	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	1	NG/L	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	6	NG/L	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	3	NG/L	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDE	2	NG/L	<2	<2	ND	<2	ND	0
p,p-DDT	4	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDE	1	NG/L	ND	ND	ND	<1	ND	0
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor	2	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	2	NG/L	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	2	NG/L	ND	ND	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Oxychlordane	3	NG/L	ND	ND	ND	ND	ND	ND
Trans Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND
Cis Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	3	NG/L	ND	ND	ND	ND	ND	ND
Beta Endosulfan	5	NG/L	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	5	NG/L	ND	ND	ND	ND	ND	ND
Endrin	8	NG/L	ND	ND	ND	<8	ND	0
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND
Mirex	1	NG/L	ND	ND	ND	ND	ND	ND
Methoxychlor	1	NG/L	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND
PCB 1016	12	NG/L	ND	ND	ND	ND	ND	ND
PCB 1221	18	NG/L	ND	ND	ND	ND	ND	ND
PCB 1232	12	NG/L	ND	ND	ND	ND	ND	ND
PCB 1242	5	NG/L	ND	ND	ND	ND	ND	ND
PCB 1248	5	NG/L	ND	ND	ND	ND	ND	ND
PCB 1254	11	NG/L	ND	ND	ND	ND	ND	ND
PCB 1260	9	NG/L	ND	ND	ND	ND	ND	ND
PCB 1262	10	NG/L	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	8	NG/L	0	0	0	0	0	0
Hexachlorocyclohexanes	6	NG/L	0	0	0	0	0	0
DDT and derivatives	4	NG/L	0	0	0	0	0	0
Chlordane + related cmpds.	3	NG/L	0	0	0	0	0	0
Polychlorinated biphenyls	18	NG/L	0	0	0	0	0	0
Endosulfans	5	NG/L	0	0	0	0	0	0
Heptachlors	4	NG/L	0	0	0	0	0	0
Chlorinated Hydrocarbons	330	NG/L	0	0	0	0	0	0

Note: Introduction of new instrument (450GC/300MS TripleQuad Mass spectrometer) as of August 2012.

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEWAGE ANNUAL - Chlorinated Pesticide Analysis 608-TripleQuad

2012 Annual

Source			PLR	PLR	PLR	PLR	PLR	PLR
Month			AUG	SEP	OCT	NOV	DEC	
Analyte	MDL	Units	Avg	Avg	Avg	Avg	Avg	Average
Aldrin	3	NG/L	ND	ND	ND	ND	ND	ND
Dieldrin	8	NG/L	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	1	NG/L	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	6	NG/L	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	3	NG/L	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDE	2	NG/L	<2	3	2	4	5	3
p,p-DDT	4	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDD	3	NG/L	ND	ND	ND	3	ND	1
o,p-DDE	1	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor	2	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	2	NG/L	<2	ND	<2	ND	ND	0
Gamma (trans) Chlordane	2	NG/L	<2	ND	<2	ND	ND	0
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Oxychlordane	3	NG/L	ND	ND	ND	ND	ND	ND
Trans Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND
Cis Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	3	NG/L	ND	ND	ND	ND	ND	ND
Beta Endosulfan	5	NG/L	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	5	NG/L	ND	<5	ND	<5	ND	0
Endrin	8	NG/L	ND	ND	ND	ND	<8	0
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND
Mirex	1	NG/L	ND	ND	ND	ND	ND	ND
Methoxychlor	1	NG/L	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND
PCB 1016	12	NG/L	ND	ND	ND	ND	ND	ND
PCB 1221	18	NG/L	ND	ND	ND	ND	ND	ND
PCB 1232	12	NG/L	ND	ND	ND	ND	ND	ND
PCB 1242	5	NG/L	ND	ND	ND	ND	ND	ND
PCB 1248	5	NG/L	ND	ND	ND	ND	ND	ND
PCB 1254	11	NG/L	ND	ND	ND	ND	ND	ND
PCB 1260	9	NG/L	ND	ND	ND	ND	ND	ND
PCB 1262	10	NG/L	ND	ND	ND	ND	ND	ND
Aldrin + Dieldrin	8	NG/L	0	0	0	0	0	0
Hexachlorocyclohexanes	6	NG/L	0	0	0	0	0	0
DDT and derivatives	4	NG/L	0	3	2	7	5	3
Chlordane + related cmpds.	3	NG/L	0	0	0	0	0	0
Polychlorinated biphenyls	18	NG/L	0	0	0	0	0	0
Endosulfans	5	NG/L	0	0	0	0	0	0
Heptachlors	4	NG/L	0	0	0	0	0	0
Chlorinated Hydrocarbons	330	NG/L	0	3	2	7	5	3

Note: Introduction of new instrument (450GC/300MS TripleQuad Mass spectrometer) as of August 2012.

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

POINT LOMA WASTEWATER TREATMENT PLANT
Organophosphorus Pesticides

2012 Annual

Analyte	MDL	Units	PLE 12-JAN-2012 P601998	PLE 07-FEB-2012 P602738	PLE 11-FEB-2012 P606232	PLE 14-MAR-2012 P609933	PLE 15-APR-2012 P613749	PLE 01-MAY-2012 P613974
Demeton O	.15	UG/L	ND	ND	ND	ND	ND	ND
Demeton S	.08	UG/L	ND	ND	ND	ND	ND	ND
Diazinon	.03	UG/L	ND	ND	ND	ND	ND	ND
Guthion	.15	UG/L	ND	ND	ND	ND	ND	ND
Malathion	.03	UG/L	0.05	ND	ND	ND	ND	0.15
Parathion	.03	UG/L	ND	ND	ND	ND	ND	ND
Chlorpyrifos	.03	UG/L	ND	ND	ND	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	NR	ND	ND	ND
Dichlorvos	.05	UG/L	ND	ND	NR	ND	ND	ND
Dimethoate	.04	UG/L	ND	ND	NR	ND	ND	ND
Disulfoton	.02	UG/L	ND	ND	NR	ND	ND	ND
Stirophos	.03	UG/L	ND	ND	NR	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.05	0.00	0.00	0.00	0.00	0.15
Demeton -O, -S	.15	UG/L	0.00	0.00	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15	UG/L	0.05	0.00	0.00	0.00	0.00	0.15

Analyte	MDL	Units	PLE 09-JUN-2012 P620240	PLE 11-JUL-2012 P623671	PLE 12-AUG-2012 P629010	PLE 05-SEP-2012 P631933	PLE 02-OCT-2012 P634304	PLE 16-NOV-2012 P640594
Demeton O	.15	UG/L	ND	ND	ND	ND	ND	ND
Demeton S	.08	UG/L	ND	ND	ND	ND	ND	ND
Diazinon	.03	UG/L	ND	ND	ND	ND	ND	0.1
Guthion	.15	UG/L	ND	ND	ND	ND	ND	ND
Malathion	.03	UG/L	ND	ND	0.07	0.04	ND	ND
Parathion	.03	UG/L	ND	ND	ND	ND	ND	ND
Chlorpyrifos	.03	UG/L	ND	ND	ND	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	ND	ND	ND	ND
Dichlorvos	.05	UG/L	ND	ND	ND	ND	ND	ND
Dimethoate	.04	UG/L	ND	ND	ND	ND	ND	ND
Disulfoton	.02	UG/L	ND	ND	ND	ND	ND	ND
Stirophos	.03	UG/L	ND	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.00	0.00	0.07	0.04	0.00	0.00
Demeton -O, -S	.15	UG/L	0.00	0.00	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15	UG/L	0.00	0.00	0.07	0.04	0.00	0.10

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

POINT LOMA WASTEWATER TREATMENT PLANT
Organophosphorus Pesticides

2012 Annual

Analyte	MDL	Units	PLE 10-DEC-2012 P642562
Demeton O	.15	UG/L	ND
Demeton S	.08	UG/L	ND
Diazinon	.03	UG/L	ND
Guthion	.15	UG/L	ND
Malathion	.03	UG/L	ND
Parathion	.03	UG/L	ND
Chlorpyrifos	.03	UG/L	ND
Coumaphos	.15	UG/L	ND
Dichlorvos	.05	UG/L	ND
Dimethoate	.04	UG/L	ND
Disulfoton	.02	UG/L	ND
Stirophos	.03	UG/L	ND
Thiophosphorus Pesticides	.15	UG/L	0.00
Demeton -O, -S	.15	UG/L	0.00
Total Organophosphorus Pesticides	.15	UG/L	0.00

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

POINT LOMA WASTEWATER TREATMENT PLANT
Organophosphorus Pesticides

2012 Annual

Analyte	MDL	Units	PLR 12-JAN-2012 P602001	PLR 07-FEB-2012 P602744	PLR 14-MAR-2012 P609936	PLR 15-APR-2012 P613752	PLR 01-MAY-2012 P613980	PLR 09-JUN-2012 P620243
Demeton O	.15	UG/L	ND	ND	ND	ND	ND	ND
Demeton S	.08	UG/L	ND	ND	ND	ND	ND	ND
Diazinon	.03	UG/L	ND	ND	ND	ND	ND	ND
Guthion	.15	UG/L	ND	ND	ND	ND	ND	ND
Malathion	.03	UG/L	ND	ND	ND	ND	ND	ND
Parathion	.03	UG/L	ND	ND	ND	ND	ND	ND
Chlorpyrifos	.03	UG/L	ND	ND	ND	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	ND	ND	ND	ND
Dichlorvos	.05	UG/L	ND	ND	ND	ND	ND	ND
Dimethoate	.04	UG/L	ND	ND	ND	ND	ND	ND
Disulfoton	.02	UG/L	ND	ND	ND	ND	ND	ND
Stirophos	.03	UG/L	ND	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.00	0.00	0.00	0.00	0.00	0.00
Demeton -O, -S	.15	UG/L	0.00	0.00	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15	UG/L	0.00	0.00	0.00	0.00	0.00	0.00

Analyte	MDL	Units	PLR 11-JUL-2012 P623674	PLR 12-AUG-2012 P629013	PLR 05-SEP-2012 P631936	PLR 02-OCT-2012 P634310	PLR 16-NOV-2012 P640597	PLR 10-DEC-2012 P642565
Demeton O	.15	UG/L	ND	ND	ND	ND	ND	ND
Demeton S	.08	UG/L	ND	ND	ND	ND	ND	ND
Diazinon	.03	UG/L	ND	ND	ND	ND	0.1	ND
Guthion	.15	UG/L	ND	ND	ND	ND	ND	ND
Malathion	.03	UG/L	ND	0.10	0.06	ND	ND	ND
Parathion	.03	UG/L	ND	ND	ND	ND	ND	ND
Chlorpyrifos	.03	UG/L	ND	ND	ND	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	ND	ND	ND	ND
Dichlorvos	.05	UG/L	ND	ND	ND	ND	ND	ND
Dimethoate	.04	UG/L	ND	ND	ND	ND	ND	ND
Disulfoton	.02	UG/L	ND	ND	ND	ND	ND	ND
Stirophos	.03	UG/L	ND	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.00	0.10	0.06	0.00	0.00	0.00
Demeton -O, -S	.15	UG/L	0.00	0.00	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15	UG/L	0.00	0.10	0.06	0.00	0.10	0.00

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

POINT LOMA WASTEWATER TREATMENT PLANT
Tributyl Tin analysis

2012 Annual

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

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

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

POINT LOMA WASTEWATER TREATMENT PLANT
Acid Extractables

2012 Annual

Source			PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	
Month			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Analyte	MDL	Units	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
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	18.3	19.3	19.1	18.0	18.6	19.2	20.1	18.4	13.0	18.2	21.6	20.5	18.7
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	18.3	19.3	19.1	18.0	18.6	19.2	20.1	18.4	13.0	18.2	21.6	20.5	18.7
Phenols	2.16	UG/L	18.3	19.3	19.1	18.0	18.6	19.2	20.1	18.4	13.0	18.2	21.6	20.5	18.7
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	46.9	55.7	45.0	53.5	37.0	42.3	32.0	36.5	24.6	39.1	50.4	53.7	43.1
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Source			PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	
Month			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Analyte	MDL	Units	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
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	23.6	22.8	21.5	21.3	21.3	22.7	27.3	24.1	24.1	21.7	21.6	20.4	22.7
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	23.6	22.8	21.5	21.3	21.3	22.7	27.3	24.1	24.1	21.7	21.6	20.4	22.7
Phenols	2.16	UG/L	23.6	22.8	21.5	21.3	21.3	22.7	27.3	24.1	24.1	21.7	21.6	20.4	22.7
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	ND	NA	NA	NA	ND
4-Methylphenol(3-MP is unresolved)	2.11	UG/L	57.0	59.1	46.1	53.0	43.9	45.1	48.5	45.4	48.3	44.1	43.7	49.5	48.6
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

2012 Annual

Source			PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
Month			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Analyte	MDL	Units	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Average
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	ND	ND	ND	ND	ND	<8.96	ND	ND	ND	ND	0.00
Diethyl phthalate	3.05	UG/L	5.7	5.2	4.7	5.1	4.7	5.0	7.1	6.6	ND	5.5	5.7	5.7	5.1
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	5.7	5.2	4.7	5.1	4.7	5.0	7.1	6.6	0.0	5.5	5.7	5.7	5.1
Additional Analytes Determined;															
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

* = The values for both the check and spike sample in this batch for these analytes are above the QC acceptance range.

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

POINT LOMA WASTEWATER TREATMENT PLANT
Priority Pollutants Base/Neutrals

2012 Annual

Source			PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
Month			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Analyte	MDL	Units	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Average
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	10.3	11.2	10.5	12.6	ND	ND	15.6	10.0	ND	10.5	10.5	ND	7.60
Diethyl phthalate	3.05	UG/L	4.5	5.5	5.8	5.1	4.4	5.1	5.2	5.6	5.2	5.3	3.9	4.1	5.0
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuc. Aromatic Hydrocarbons	1.77	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Base/Neutral Compounds	8.96	UG/L	14.8	16.7	16.3	17.7	4.4	5.1	20.8	15.6	5.2	15.8	14.4	4.1	12.6
Additional Analytes Determined;															
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

* = The values for both the check and spike sample in this batch for these analytes are above the QC acceptance range.

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

POINT LOMA WASTEWATER TREATMENT PLANT
Priority Pollutants Purgeables

2012 Annual

Source			PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
Month			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Analyte	MDL	Units	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Average
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.4	ND	0.0
Bromodichloromethane	.5	UG/L	0.8	ND	ND	0.6	<0.5	ND	ND	ND	0.6	ND	<0.5	1.2	0.3
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	1.9	1.7	<0.7	<0.7	0.3
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	0.4	ND	<0.4	ND	0.0
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND	ND	ND	1.3	3.6	2.2	1.3	<0.9	0.7
Chloroform	.2	UG/L	4.9	3.8	3.8	4.1	6.1	4.7	4.9	6.1	7.1	7.0	4.2	6.0	5.2
Chloromethane	.5	UG/L	3.7	2.0	3.7	5.0	3.5	3.9	6.1	9.6	26.9	19.7	8.6	6.8	8.3
Dibromochloromethane	.6	UG/L	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.6	1.0	0.1
1,2-Dichlorobenzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.4	ND	0.0
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	ND	0.5	0.6	<0.4	0.6	ND	<0.4	<0.4	0.5	ND	0.6	0.6*	0.3
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	<0.4	ND	0.0
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	<0.3	ND	0.0
trans-1,3-dichloropropene	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	.3	UG/L	ND	ND	0.4	ND	0.4	ND	ND	ND	0.7	0.5	0.5	ND	0.2
Methylene chloride	.3	UG/L	0.8	1.1	0.9	0.8	1.3	1.2	1.8	2.0	1.6	1.2	1.7	1.3	1.3
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	0.8	1.5	0.7	1.2	0.7	0.6	1.2	2.5	2.0	1.8	0.8	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	<0.4	ND	0.0
Halomethane Purgeable Cmpnds	.7	UG/L	3.7	2.0	3.7	5.0	3.5	3.9	6.1	9.6	28.8	21.4	8.6	6.8	8.6
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	9.4	6.9	8.4	9.9	10.9	9.8	12.8	17.7	35.6	27.9	14.5	14.1	14.8
Purgeable Compounds	1.3	UG/L	11.4	8.2	10.9	11.2	13.1	10.5	13.4	20.2	45.8	34.3	18.7	17.1	17.9
Additional Analytes Determined;															
Acetone	4.5	UG/L	761	1300	728	820	1430	798	781	753	993	1270	1060	1570	1022
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	14.8	<6.3	<6.3	14.4	7.6	7.5	10.0	8.9	12.0	12.5	ND	7.3
Carbon disulfide	.6	UG/L	2.2	1.9	1.9	2.3	2.6	3.1	3.7	4.2	3.6	3.7	2.8	2.4	2.9
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	<0.3	ND	0.0
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<0.3	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	0.9	1.0	1.2	1.3	1.8	1.3	0.5	0.8	0.7	0.6	1.4	0.7	1.0
2-Nitropropane	12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	0.7	ND	0.4	ND	ND	ND	0.8	0.7	0.4	ND	0.3
Styrene	.3	UG/L	ND	ND	0.4	ND	0.6	ND	ND	ND	ND	ND	0.3	<0.3	0.1
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	<0.6	1.3	ND	0.9	ND	ND	<0.6	1.4	1.2	1.2	ND	0.5
2-Chloroethylvinyl ether	1.1	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

* = Blank did not meet QC criteria for this analyte due to contamination. The result value of the blank in this batch was 0.45 Ug/L, result above the MDL.

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

POINT LOMA WASTEWATER TREATMENT PLANT
Priority Pollutants Purgeables

2012 Annual

Source			PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
Month			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
Analyte	MDL	Units	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Average
Acrolein	1.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acrylonitrile	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	.9	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	.2	UG/L	2.4	2.1	2.0	2.0	3.9	2.3	2.0	2.6	2.6	2.1	1.5	2.4	2.3
Chloromethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	0.7	0.8	0.5	0.5	ND	0.5	0.5	0.6	ND	0.6	0.8*	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	1.1	1.0	0.4	0.5	ND	0.5	ND	0.3	0.6	0.4	0.4	0.3	0.5
Methylene chloride	.3	UG/L	1.1	1.0	1.4	1.1	1.2	1.0	1.0	1.3	1.4	1.1	1.1	1.2	1.2
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	0.7	1.0	0.6	0.9	0.7	0.7	0.8	1.2	2.0	0.8	1.0	0.9
1,1,1-Trichloroethane	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	.5	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	.7	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Chloromethanes	.5	UG/L	3.5	3.1	3.4	3.1	5.1	3.3	3.0	3.9	4.0	3.2	2.6	3.6	3.5
Purgeable Compounds	1.3	UG/L	5.5	5.5	5.6	4.7	6.5	4.5	4.2	5.5	6.4	5.6	4.4	4.9	5.3
Additional Analytes Determined;															
Acetone	4.5	UG/L	1180	2330	779	632	1030	1260	1000	607	1010	875	229	1440	1031
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	8.4	6.7	9.5	ND	10.9	8.0	ND	12.4	11.4	9.3	ND	ND	6.4
Carbon disulfide	.6	UG/L	1.8	1.7	1.4	1.3	1.7	2.2	3.0	3.7	2.6	2.9	1.6	1.7	2.1
Chloroprene	.4	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	.3	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Iodide	.6	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl methacrylate	.8	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	.4	UG/L	0.6	0.8	1.0	0.6	1.5	0.7	0.7	0.8	0.7	0.7	1.7	0.5	0.9
2-Nitropropane	12	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ortho-xylene	.4	UG/L	ND	ND	0.5	0.8	ND	ND	3.1	ND	ND	0.6	ND	ND	0.4
Styrene	.3	UG/L	ND	0.9	0.6	ND	0.9	ND	ND	ND	ND	ND	0.3	0.7	0.3
1,2,4-Trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	ND	0.6	0.8	1.7	ND	ND	4.5	0.8	1.0	1.2	ND	ND	0.9
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 did not meet QC criteria for this analyte due to contamination. The result value of the blank in this batch was 0.45 Ug/L, result above the MDL.

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

POINT LOMA WASTEWATER TREATMENT
EFFLUENT
Dioxin and Furan Analysis

ANALYZED BY: Frontier Analytical Laboratories

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Source			PLE#	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
Month			JAN#	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Analyte	MDL	Units	P601998	P602738	P609086	P612733	P613974	P619448	P622820	P629010	P631933
2,3,7,8-tetra CDD	.26	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	.482	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	DNQ5.04	DNQ5.56	DQN3.89	DNQ3.74	DNQ3.07	ND	DNQ2.90	DNQ5.51	DNQ4.06
octa CDD	1.41	PG/L	DNQ45.0	DNQ46.0	DNQ36.0	DNQ31.0	DNQ25.0	DNQ18.0	DNQ26.0	DNQ31.0	DNQ29.0
2,3,7,8-tetra CDF	.257	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	ND	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	ND
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	ND	4.40	ND	ND	ND	ND	ND	ND	ND

Source			PLE	PLE	PLE
Month			OCT	NOV	DEC
Analyte	MDL	Units	P634304	P638993	P641974
2,3,7,8-tetra CDD	.26	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	.482	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	ND	ND	ND
octa CDD	1.41	PG/L	DNQ21.0	DNQ22.0	DNQ26.0
2,3,7,8-tetra CDF	.257	PG/L	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	ND	ND	ND
octa CDF	.805	PG/L	ND	ND	ND

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Above are permit required CDD/CDF isomers.
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POINT LOMA WASTEWATER TREATMENT
EFFLUENT
Dioxin and Furan Analysis

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Sourc				PLE#	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
				TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
Month				JAN#	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Analyte	MDL	Units	Equiv	P601998	P602738	P609086	P612733	P613974	P619448	P622820	P629010	P631933
2,3,7,8-tetra CDD	.26	PG/L	1.000	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
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.050	DNQ0.056	DNQ0.039	DNQ0.037	DNQ0.031	ND	DNQ0.029	DNQ0.055	DNQ0.041
octa CDD	1.41	PG/L	0.001	DNQ0.045	DNQ0.046	DNQ0.036	DNQ0.031	DNQ0.025	DNQ0.018	DNQ0.026	DNQ0.031	DNQ0.029
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	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	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	0.004	ND	ND	ND	ND	ND	ND	ND

Source				PLE	PLE	PLE
				TCDD	TCDD	TCDD
Month				OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P634304	P638993	P641974
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	ND	ND	ND
octa CDD	1.41	PG/L	0.001	DNQ0.021	DNQ0.022	DNQ0.026
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	ND	ND

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Above are permit required CDD/CDF isomers.
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POINT LOMA WASTEWATER TREATMENT
EFFLUENT
Dioxin and Furan Analysis

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Source			PLR#	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
Month			JAN#	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
Analyte	MDL	Units	P602001	P602744	P609089	P612736	P613980	P619451	P622823	P629013	P631936	P634310
2,3,7,8-tetra CDD	.26	PG/L	ND	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	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	30.2	48.5	DNQ19.3	27.6	41.3	DNQ20.6	DNQ22.8	DNQ22.2	DNQ17.8	DNQ20.2
octa CDD	1.41	PG/L	270.0	350.0	220.0	200.0	270.0	180.0	250.0	160.0	130.0	220.0
2,3,7,8-tetra CDF	.257	PG/L	ND	ND	ND	DNQ1.31	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	ND	DNQ1.74	DNQ1.36	ND	ND	ND	DNQ5.75	DNQ2.30	DNQ2.07	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	DNQ5.10	DNQ6.50	DNQ4.91	DNQ4.19	DNQ6.71	DNQ3.48	DNQ6.62	DNQ3.49	DNQ3.38	DNQ4.33
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	DNQ14.5	DNQ16.5	DNQ12.5	DNQ10.4	DNQ17.5	DNQ9.42	DNQ15.3	DNQ8.14	DNQ7.22	DNQ9.07

Source			PLR	PLR
Month			NOV	DEC
Analyte	MDL	Units	P638996	P641977
2,3,7,8-tetra CDD	.26	PG/L	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	DNQ16.2	DNQ17.0
octa CDD	1.41	PG/L	210.0	150.0
2,3,7,8-tetra CDF	.257	PG/L	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	DNQ3.92	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	ND	ND
octa CDF	.805	PG/L	DNQ9.36	DNQ8.55

#= Refer to self monitoring report

Above are permit required CDD/CDF isomers.
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NS= not sampled

POINT LOMA WASTEWATER TREATMENT
EFFLUENT
Dioxin and Furan Analysis

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Source				PLR#	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
				TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
Month				JAN#	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
Analyte	MDL	Units	Equiv	P602001	P602744	P609089	P612736	P613980	P619451	P622823	P629013	P631936
2,3,7,8-tetra CDD	.26	PG/L	1.000	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
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	0.302	0.485	DNQ0.193	0.276	0.413	DNQ0.206	DNQ0.228	DNQ0.222	DNQ0.178
octa CDD	1.41	PG/L	0.001	0.270	0.350	0.220	0.200	0.270	0.180	0.250	0.160	0.130
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND	DNQ0.131	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	DNQ0.174	DNQ0.136	ND	ND	ND	DNQ0.575	DNQ0.230	DNQ0.207
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ0.051	DNQ0.065	DNQ0.049	DNQ0.042	DNQ0.067	DNQ0.035	DNQ0.066	DNQ0.035	DNQ0.034
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.015	DNQ0.017	DNQ0.013	DNQ0.010	DNQ0.018	DNQ0.009	DNQ0.015	DNQ0.008	DNQ0.007

Source				PLR	PLR	PLR
				TCDD	TCDD	TCDD
Month				OCT	NOV	DEC
Analyte	MDL	Units	Equiv	P634310	P638996	P641977
2,3,7,8-tetra CDD	.26	PG/L	1.000	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.482	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.484	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.46	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.202	DNQ0.162	DNQ0.170
octa CDD	1.41	PG/L	0.001	0.220	0.210	0.150
2,3,7,8-tetra CDF	.257	PG/L	0.100	ND	ND	ND
1,2,3,7,8-penta CDF	.335	PG/L	0.050	ND	ND	ND
2,3,4,7,8-penta CDF	.34	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.284	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.281	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.348	PG/L	0.100	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.294	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ0.043	DNQ0.039	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.009	DNQ0.009	DNQ0.009

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

2012
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 millilitiers for enterococcus.

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
January 3, 2012	1,100,000	490,000	40,000
January 9, 2012	13,000,000	1,700,000	120,000e
January 17, 2012	33,000,000	2,200,000	43,000
January 23, 2012	3,300,000	1,700,000	17,000e
January 30, 2012	2,300,000	330,000	27,000
Average	10,540,000	1,284,000	27,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
February 6, 2012	2,300,000	790,000	440,000
February 13, 2012	460,000	460,000	8,000e
February 21, 2012	230,000	78,000	3,000e
February 27, 2012	7,900,000	700,000	78,000
Average	2,722,500	507,000	78,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
March 5, 2012	1,700,000	1,100,000	15,000e
March 12, 2012	330,000	110,000	8,000e
March 19, 2012	1,300,000	330,000	10,000e
March 26, 2012	3,300,000	490,000	19,000e
Average	1,657,500	507,500	1,082,500

*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 2 2012	4,900,000	3,300,000	120,000e
April 9, 2012	230,000	45,000	3,000e
April 16, 2012	790,000	78,000	9,000e
April 23, 2012	330,000	<18,000	4,000e
April 30, 2012	110,000	7,800	12,000e
Average	1,272,000	7,800	0.0

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
May 7, 2012	790,000	27,000	4,100
May 14, 2012	130,000	7,800	1,300e
May 21, 2012	130,000	22,000	500e
May 29, 2012	79,000	4,500	200e
Average	280,000	15,000	1,500

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
June 4, 2012	230,000	7,800	200e
June 11, 2012	110,000	17,000	100e
June 18, 2012	33,000	4,900	700e
June 25, 2012	330,000	130,000	19,000e
Average	180,000	40,000	5,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
July 2, 2012	220,000	46,000	1,400e
July 9, 2012	700,000	130,000	14,000e
July 16, 2012	17,000	2,100	700e
July 23, 2012	2,200,000	170,000	17,000e
July 30, 2012	5,400,000	2,200,000	25,000
Average	1,700,000	510,000	12,000

*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 6, 2012	2,400,000	490,000	16,000e
August 13, 2012	1,100,000	170,000	1,000e
August 20, 2012	790,000	330,000	27,000
August 27, 2012	1,700,000	700,000	12,000
Average	1,497,500	422,500	19,500

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
September 4, 2012	790,000	170,000	16,000e
September 10, 2012	1,300,000	490,000	3,500
September 17, 2012	790,000	330,000	39,000
September 24, 2012	230,000	17,000	3,700
Average	777,500	251,750	15,400

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
October 3, 2012	2,400,000	490,000	2,300
October 8, 2012	630,000	110,000	500e
October 16, 2012	490,000	490,000	4,900
October 22, 2012	5,400,000	2,400,000	33,000
October 30, 2012	330,000	130,000	800e
Average	1,850,000	724,000	12,633

*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 5, 2012	1,700,000	1,700,000	5,000
November 13, 2012	3,500,000	330,000	1,200e
November 19, 2012	9,200,000	3,500,000	11,000e
November 26, 2012	700,000	130,000	700e
Average	3,775,000	1,415,000	1,000

DATE	COLIFORM* (MPN Index/100ml)		ENTEROCOCCUS** (CFU/100 ml)
	Total	Fecal	
December 3, 2012	2,400,000	1,300,000	4,000
December 10, 2012	1,300,000	70,000	2,200
December 17, 2012	170,000	23,000	<100
December 27, 2012	16,000,000	5,400,000	140,000e
Average	4,967,500	1,698,250	1,260

*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.

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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 -2012	407	398	171	170	235	229	68.6	67.9	57.1	55.5
FEBRUARY -2012	403	404	174	173	230	231	69.5	69.3	55.8	56.0
MARCH -2012	342	341	153	153	189	188	61.2	61.4	45.8	45.6
APRIL -2012	365	373	169	174	196	199	67.5	69.5	47.7	48.4
MAY -2012	367	361	171	168	196	194	68.6	67.2	47.6	47.0
JUNE -2012	364	367	171	174	193	193	68.4	69.8	46.9	46.9
JULY -2012	368	375	171	174	197	201	68.5	69.7	47.8	48.7
AUGUST -2012	382	376	174	171	208	205	69.7	68.7	50.5	49.7
SEPTEMBER-2012	348	353	158	159	190	194	63.0	63.5	46.3	47.1
OCTOBER -2012	349	354	154	156	195	199	61.6	62.3	47.5	48.3
NOVEMBER -2012	334	341	148	151	186	190	59.2	60.3	45.2	46.2
DECEMBER -2012	368	367	164	164	204	203	65.7	65.8	49.5	49.2
Average:	366	368	165	166	202	202	66.0	66.3	49.0	49.1

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 -2012	288	273	1960	1650	481	244	2970	2940	0.96	0.95
FEBRUARY -2012	284	270	2060	1770	566	309	2980	3010	1.00	0.91
MARCH -2012	295	277	1900	1610	545	277	2750	2760	0.99	1.02
APRIL -2012	288	272	1760	1510	512	256	2560	2610	0.85	0.84
MAY -2012	307	290	1980	1660	602	309	2750	2780	0.93	0.99
JUNE -2012	304	292	1950	1670	565	300	2760	2820	0.75	0.72
JULY -2012	312	300	2070	1720	645	342	2810	2840	0.91	0.85
AUGUST -2012	299	290	1990	1730	607	354	2800	2880	0.99	0.97
SEPTEMBER-2012	298	286	1960	1700	576	310	2760	2830	1.10	1.10
OCTOBER -2012	295	279	1950	1680	585	340	2760	2780	0.74	0.93
NOVEMBER -2012	298	284	1890	1620	586	317	2690	2750	0.88	0.95
DECEMBER -2012	283	264	1820	1530	539	277	2700	2730	0.73	0.70
Average:	296	281	1941	1654	567	303	2774	2811	0.90	0.91

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 -2012	657	658	1.7	1.6	181	173	0.18	0.74	5.3	3.2
FEBRUARY -2012	647	674	1.7	1.7	192	190	0.37	0.85	5.1	3.1
MARCH -2012	574	589	1.5	1.4	180	173	0.21	0.29	5.2	4.0
APRIL -2012	520	543	1.3	1.3	179	171	0.12	0.30	4.3	3.4
MAY -2012	594	615	1.5	1.5	200	189	0.21	0.80	4.6	4.1
JUNE -2012	573	583	1.9	1.4	206	198	0.26	0.50	6.2	5.8
JULY -2012	576	609	1.5	1.5	195	189	0.36	0.29	6.1	6.1
AUGUST -2012	586	612	1.5	1.5	182	177	0.10	0.35	6.6	5.8
SEPTEMBER-2012	580	624	1.6	1.5	169	167	0.50	0.27	7.8	5.7
OCTOBER -2012	598	620	1.6	1.6	169	160	0.09	0.65	5.3	4.1
NOVEMBER -2012	582	600	1.8	1.5	163	151	0.12	0.46	5.8	4.2
DECEMBER -2012	559	580	1.4	1.4	161	151	0.08	0.44	4.1	3.6
Average:	587	609	1.6	1.5	181	174	0.22	0.50	5.5	4.4

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

POINT LOMA WASTEWATER TREATMENT PLANT
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Analyte:	Lithium		Sodium		Potassium		Chemical Oxygen Demand		Soluble BOD	
MDL:	.002	mg/L	1	mg/L	.3	mg/L	18	mg/L	2	mg/L
Source:	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2012	0.025	0.025	402	399	28.3	27.2	631	256	85	80
FEBRUARY -2012	0.027	0.029	391	401	28.5	28.3	656	275	81	78
MARCH -2012	0.026	0.026	312	319	24.5	24.2	643	258	83	80
APRIL -2012	0.030	0.029	322	336	24.9	25.3	606	247	82	82
MAY -2012	0.037	0.034	321	330	24.6	24.4	653	244	84	80
JUNE -2012	0.036	0.035	319	329	24.9	24.7	687	277	88	84
JULY -2012	0.033	0.035	329	347	25.8	25.9	746	275	90	86
AUGUST -2012	0.036	0.036	354	364	27.6	27.2	644	255	87	80
SEPTEMBER-2012	0.034	0.034	326	348	24.3	24.5	667	250	81	75
OCTOBER -2012	0.031	0.032	334	356	25.2	25.7	646	247	78	73
NOVEMBER -2012	0.028	0.028	323	343	25.0	25.6	661	245	85	77
DECEMBER -2012	0.028	0.027	354	366	26.5	26.4	648	245	78	73
Average:	0.03	0.03	341	353	25.8	25.8	657	256	84	79

Analyte:	Total Disolved Solids		Floatables		Turbidity		Aluminum		Barium	
MDL:	28	mg/L	1.4	mg/L	.13	NTU	47	ug/L	.039	ug/L
Source:	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2012	1640	1640	<1.40	ND	135	43	729	114	61	22
FEBRUARY -2012	1600	1600	<1.40	ND	133	39	677	92	53	20
MARCH -2012	1480	1490	<1.40	ND	136	37	630	79	58	20
APRIL -2012	1420	1450	<1.40	ND	137	39	876	87	67	23
MAY -2012	1670	1650	<1.40	ND	138	40	744	85	75	25
JUNE -2012	1670	1680	<1.40	ND	142	44	908	282	93	37
JULY -2012	1670	1670	<1.40	ND	141	51	1010	167	97	34
AUGUST -2012	1710	1700	<1.40	ND	136	53	751	175	73	30
SEPTEMBER-2012	1670	1670	<1.40	ND	131	46	637	171	62	25
OCTOBER -2012	1610	1630	<1.40	ND	137	39	832	119	74	24
NOVEMBER -2012	1560	1550	<1.40	ND	133	39	874	191	69	23
DECEMBER -2012	1480	1490	<1.40	ND	129	36	740	150	64	24
Average:	1598	1602	<1.40	ND	136	42	784	143	71	26

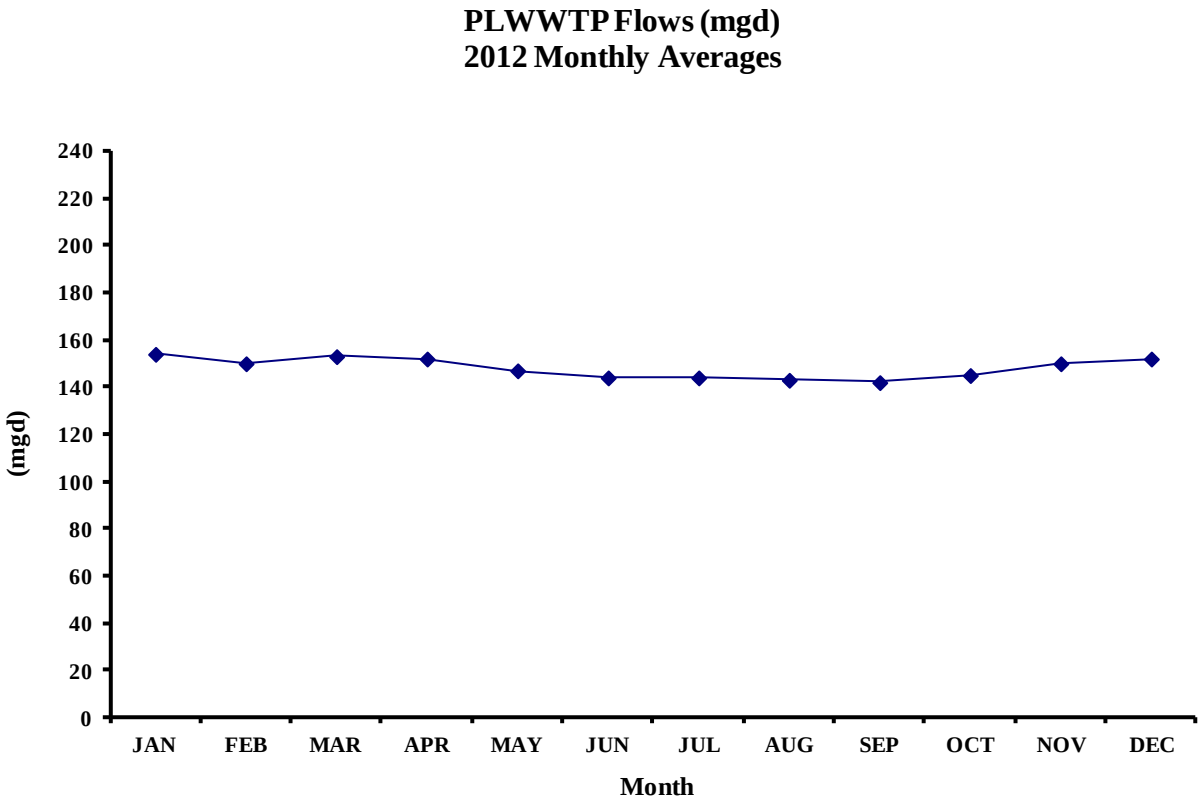
Analyte:	Boron		Cobalt		Molybdenum		Manganese		Vanadium	
MDL:	7	ug/L	.85	ug/L	.89	ug/L	.24	ug/L	.64	ug/L
Source:	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.	Inf.	Eff.
JANUARY -2012	407	402	ND	ND	8.18	6.60	112	106	3.26	1.14
FEBRUARY -2012	292	262	<0.850	ND	5.28	3.90	99	90	3.56	1.19
MARCH -2012	325	324	<0.850	ND	6.57	5.33	95	91	4.99	1.55
APRIL -2012	369	380	<0.850	ND	5.49	4.66	123	100	5.03	1.41
MAY -2012	390	385	<0.850	ND	7.92	5.65	121	104	4.39	1.34
JUNE -2012	492	486	<0.850	ND	11.90	8.51	132	117	4.55	1.29
JULY -2012	343	404	0.858	ND	10.10	7.14	118	108	4.79	1.59
AUGUST -2012	390	408	ND	ND	9.04	6.28	107	100	4.64	1.54
SEPTEMBER-2012	387	385	<0.850	ND	8.37	6.33	95	91	4.69	1.91
OCTOBER -2012	446	447	ND	ND	10.60	7.78	122	110	5.06	1.13
NOVEMBER -2012	366	402	<0.850	ND	7.71	5.94	110	96	4.35	1.01
DECEMBER -2012	376	420	ND	ND	7.63	6.11	108	102	4.13	1.37
Average:	382	392	0.072	ND	8.23	6.19	112	101	4.45	1.37

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

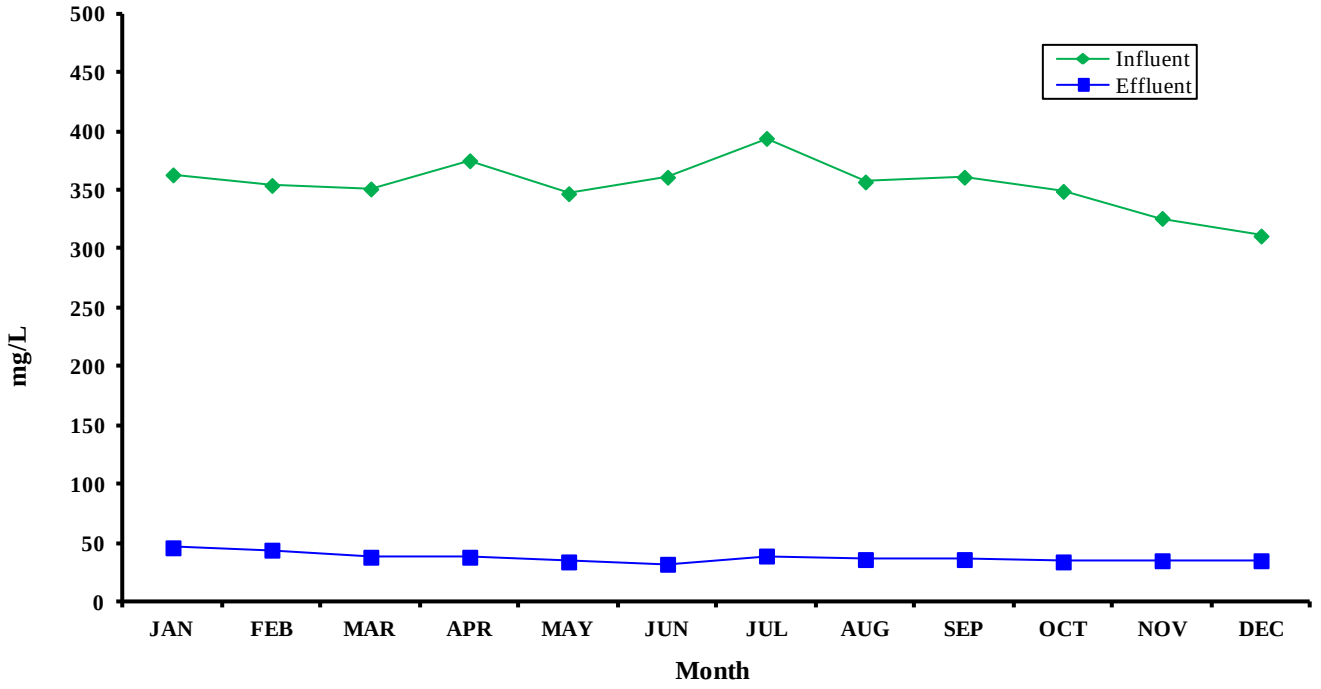
D. Influent and Effluent Graphs

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

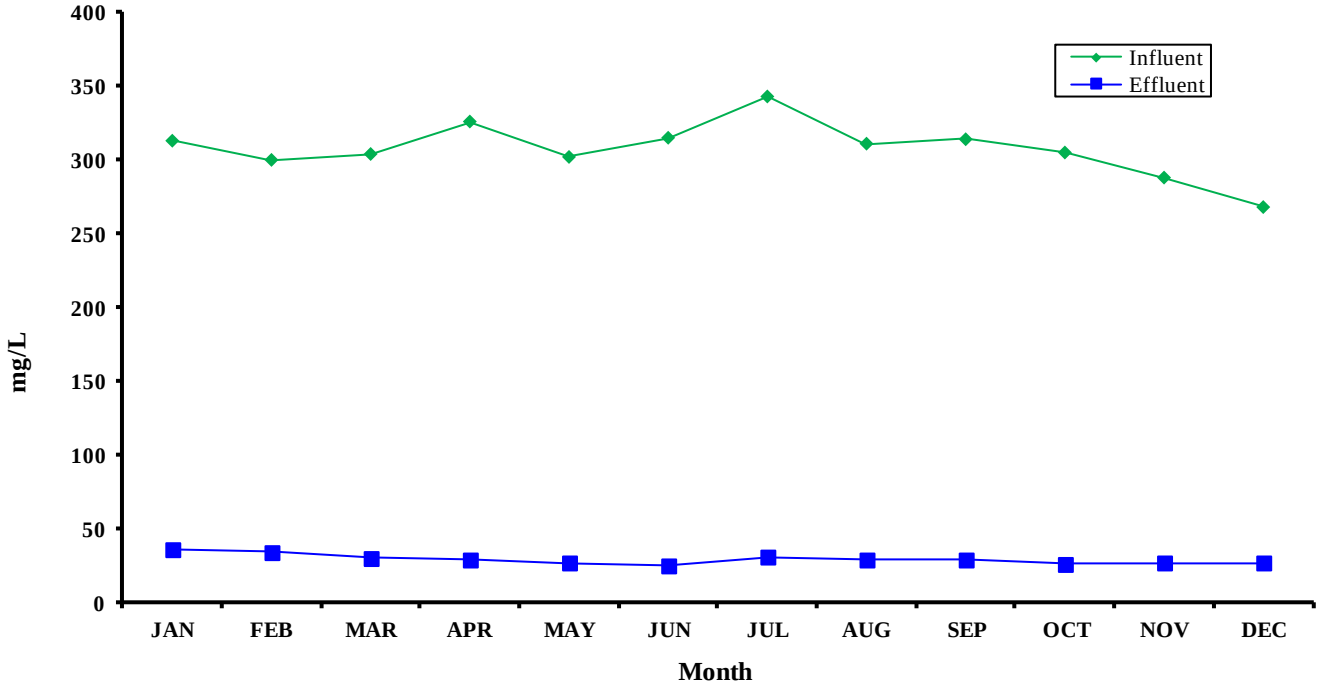
Where possible, the influent and effluent values of a given parameter have been included on the same graph so that removals and other relationships are readily apparent. Please note that many of the graphs are on expanded scales. That is, they may not go to zero concentrations but show, in magnified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



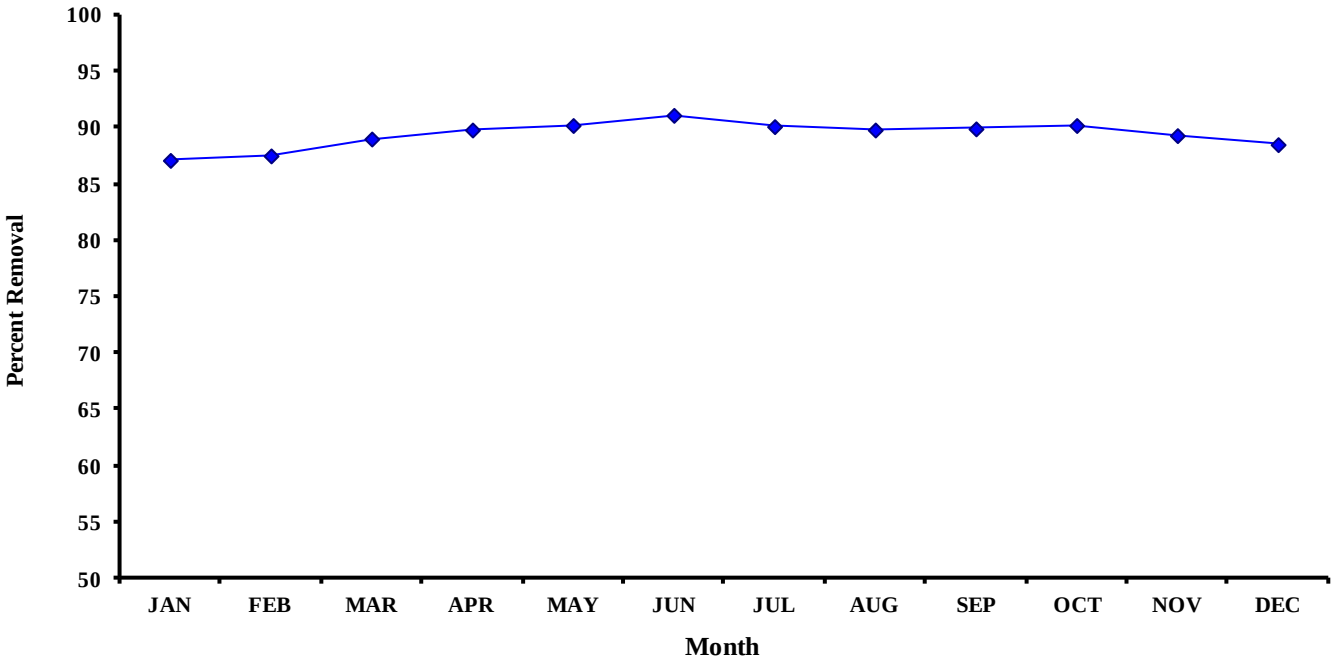
Total Suspended Solids (mg/L)
2012 Monthly Averages



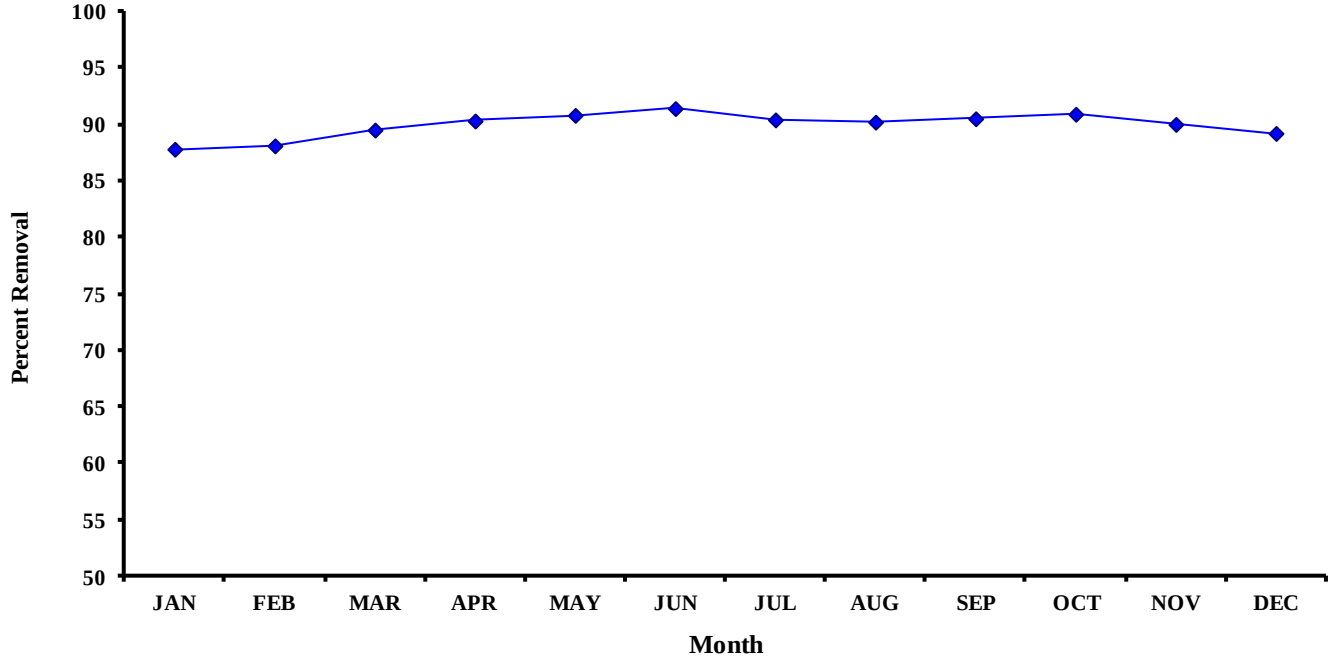
Volatile Suspended Solids (mg/L)
2012 Monthly Averages



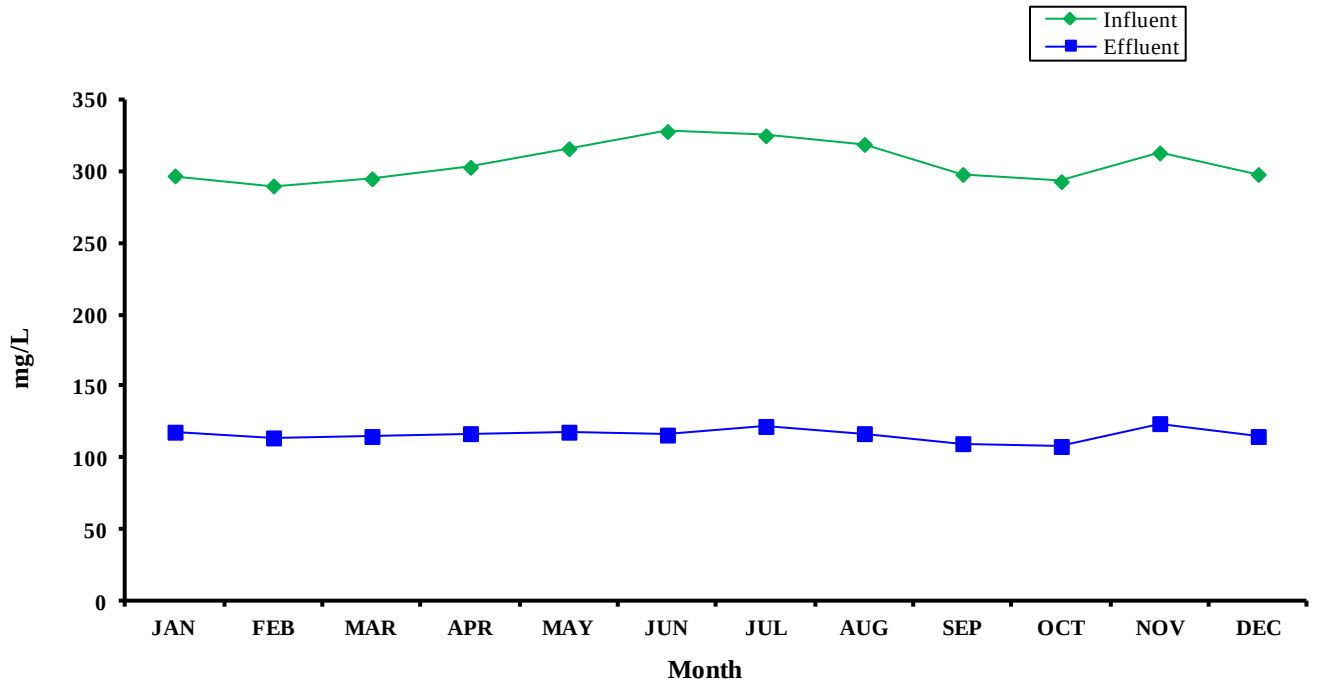
Total Suspended Solids (%) Removal
2012 Monthly Averages



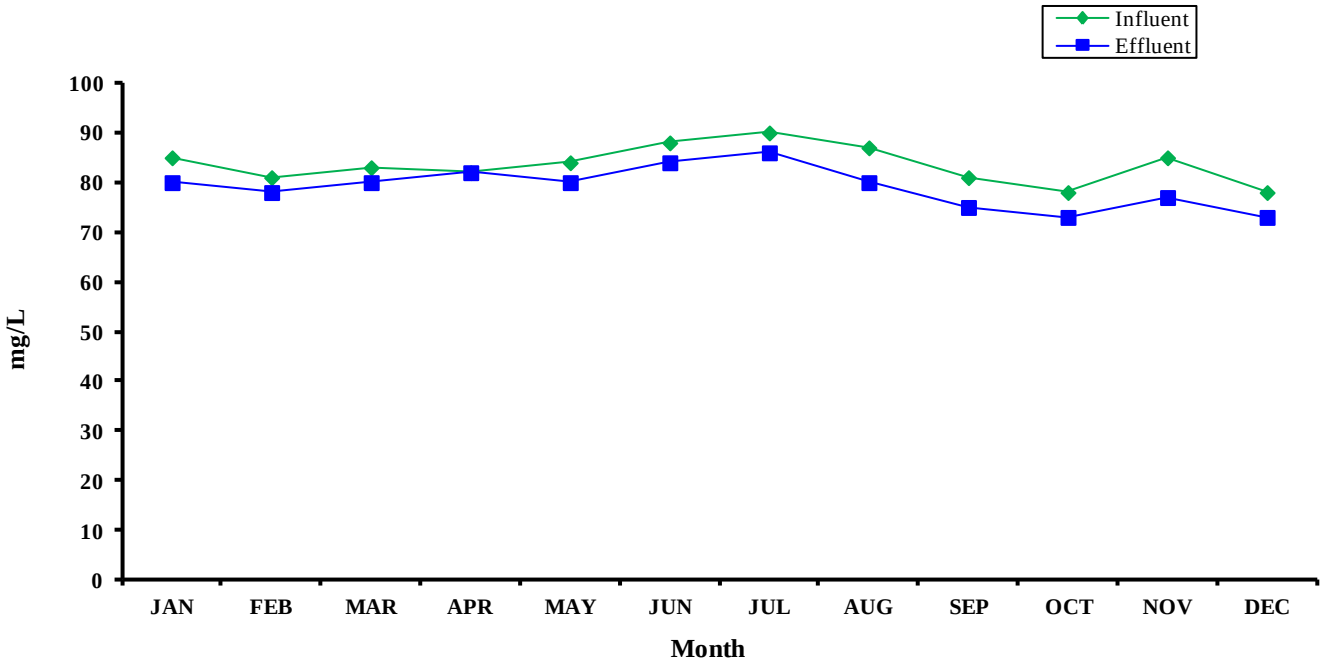
Total Suspended Solids (%) Removal
2012 Monthly Averages Systemwide



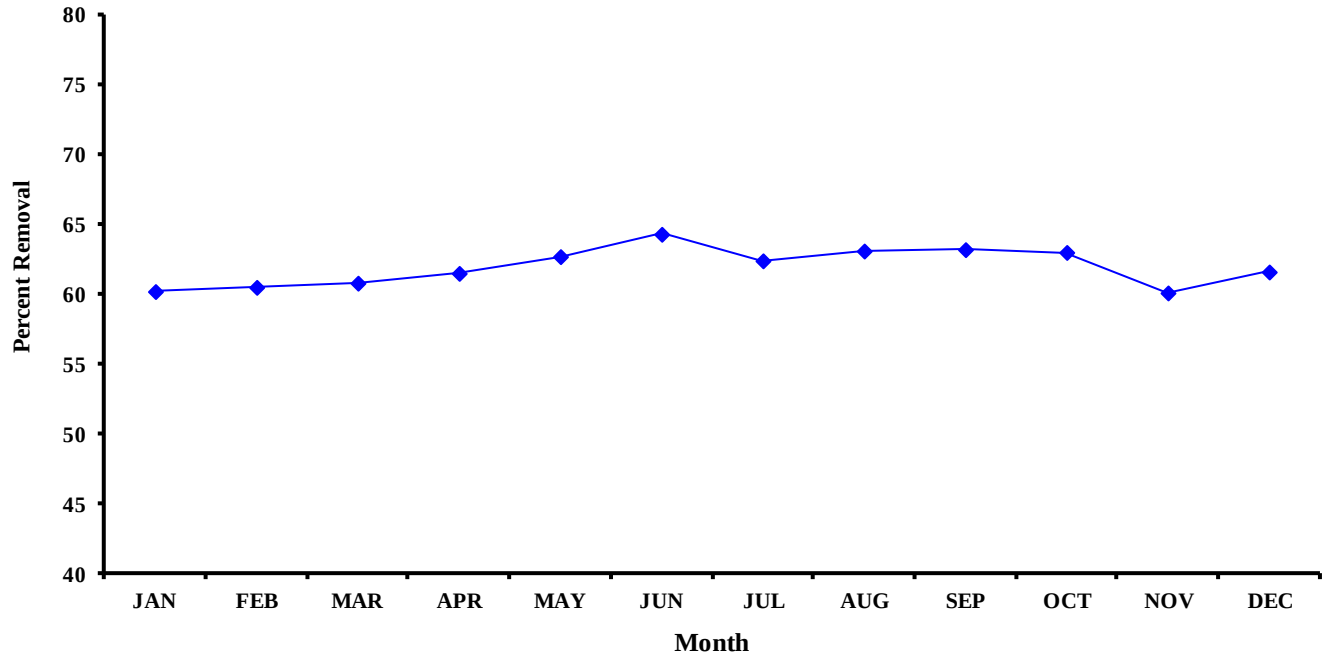
Biochemical Oxygen Demand
2012 Monthly Averages



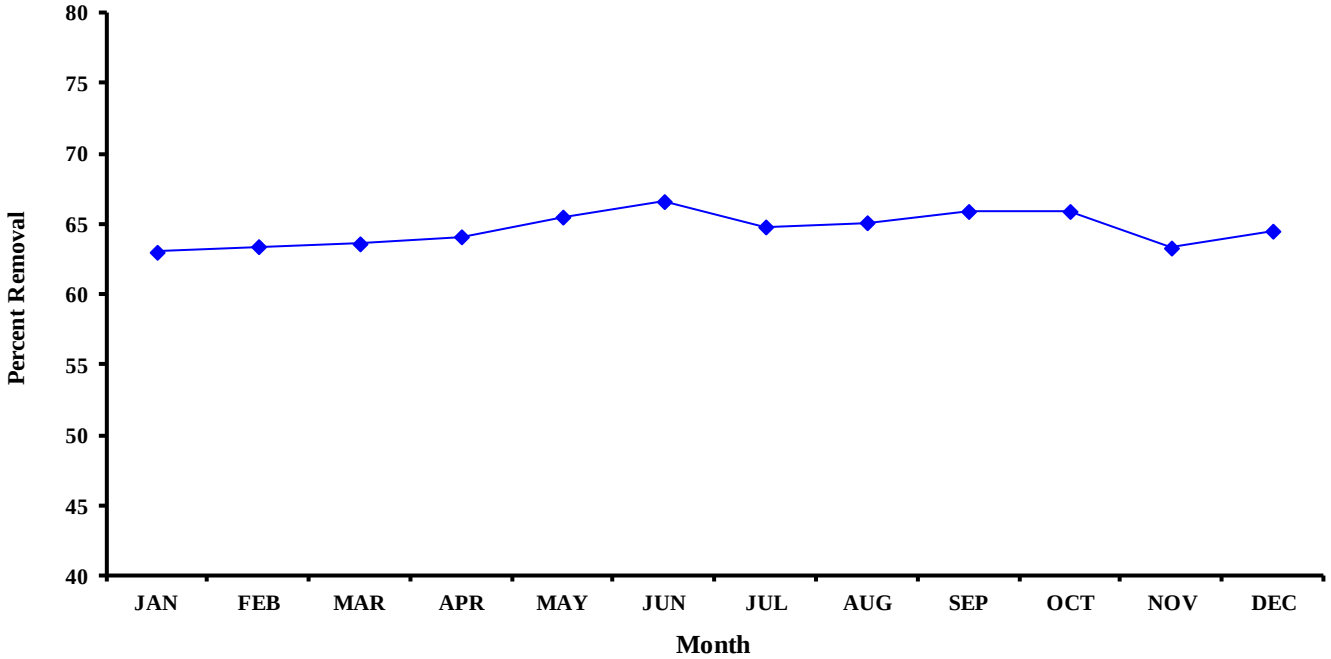
Soluble Biochemical Oxygen Demand
2012 Monthly Averages



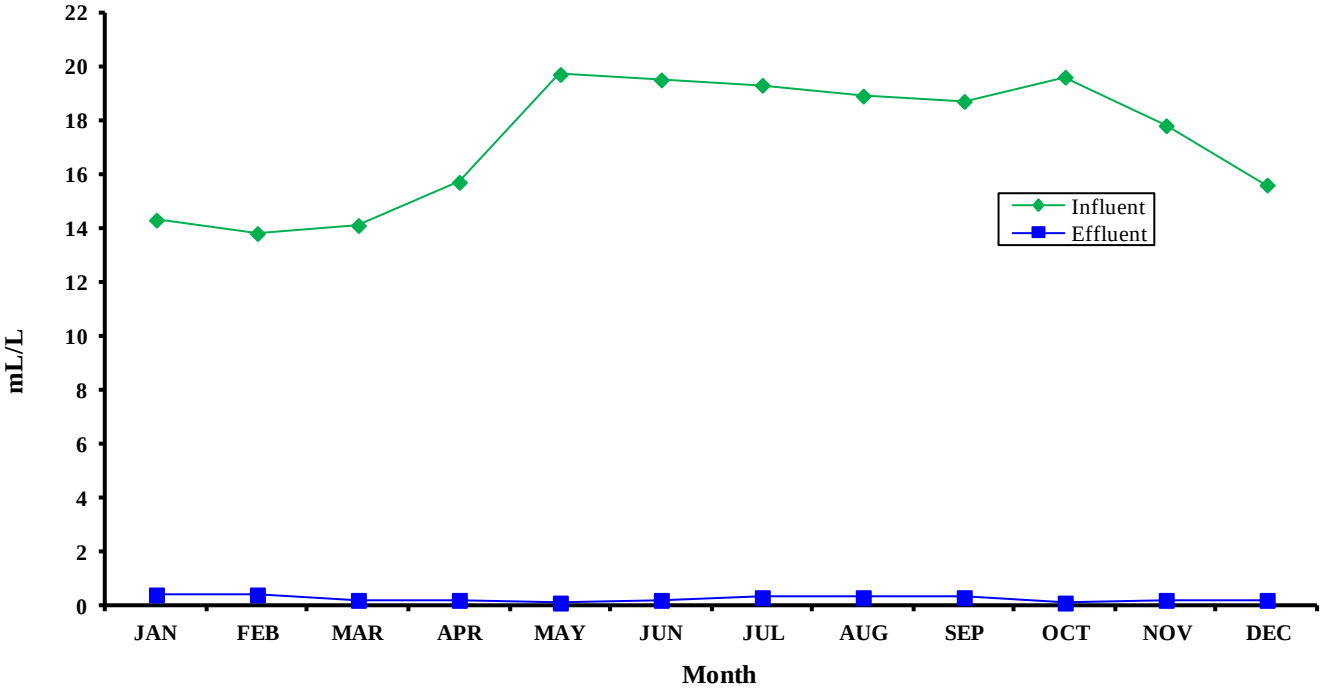
Biochemical Oxygen Demand (%) Removal
2012 Monthly Averages



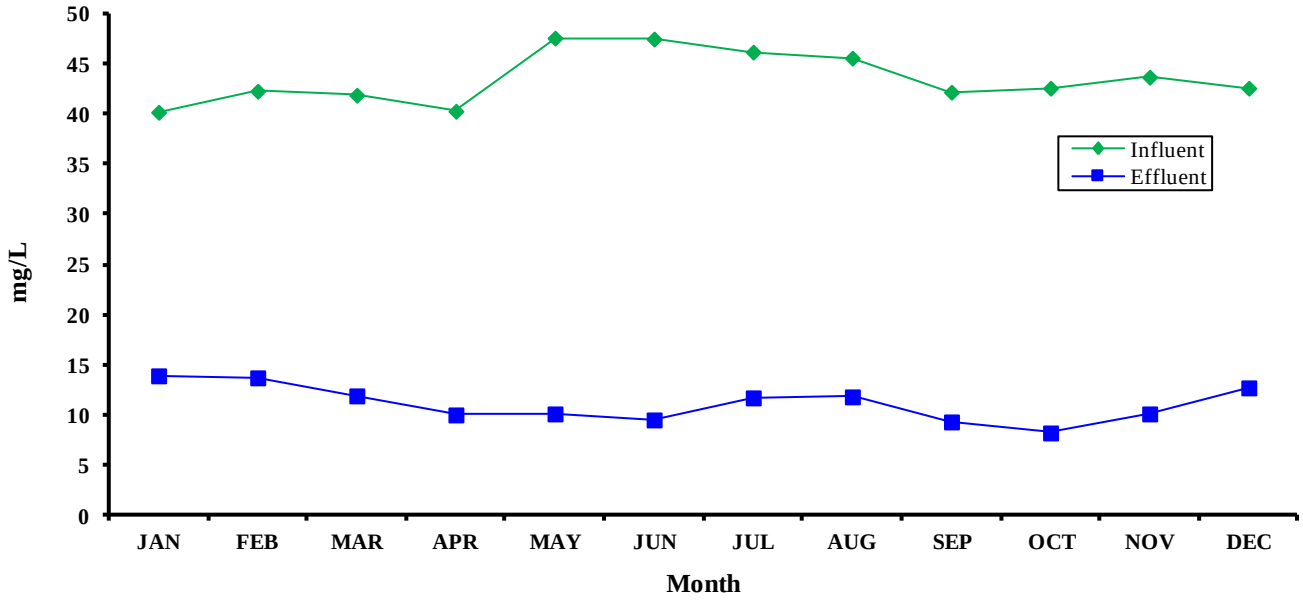
Biochemical Oxygen Demand (%) Removal
2012 Monthly Averages Systemwide



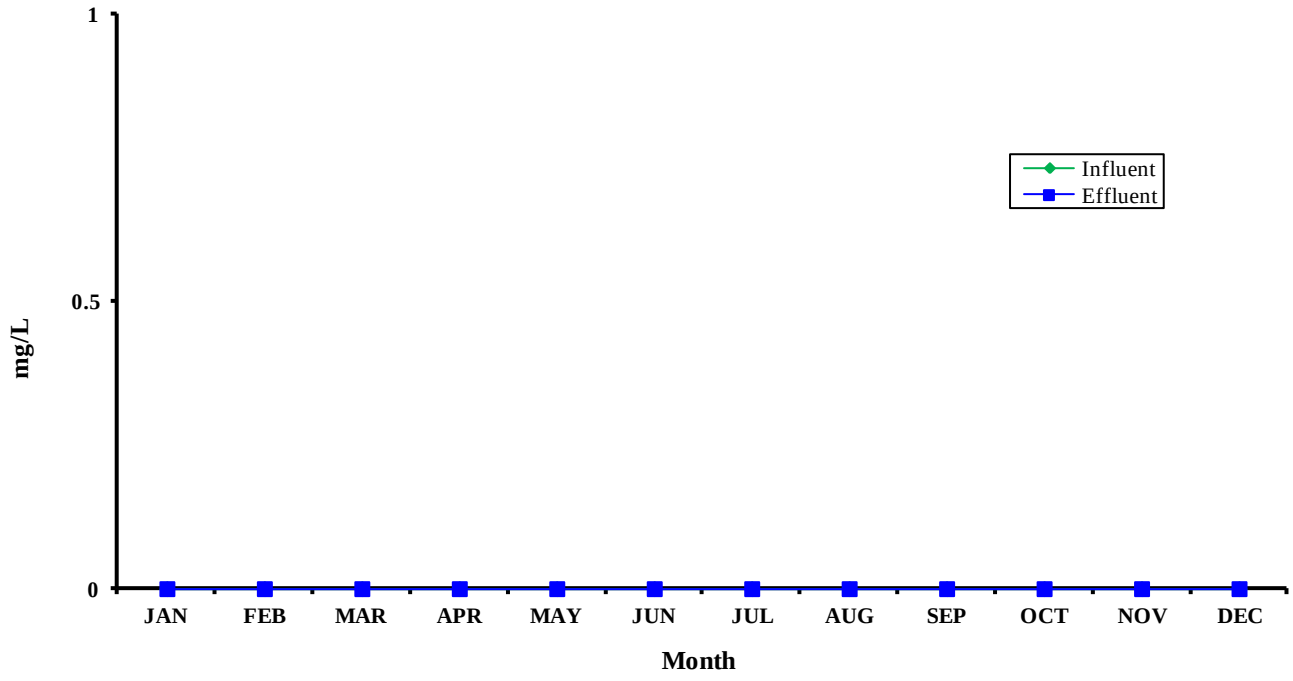
Settleable Solids (mL/L)
2012 Monthly Averages



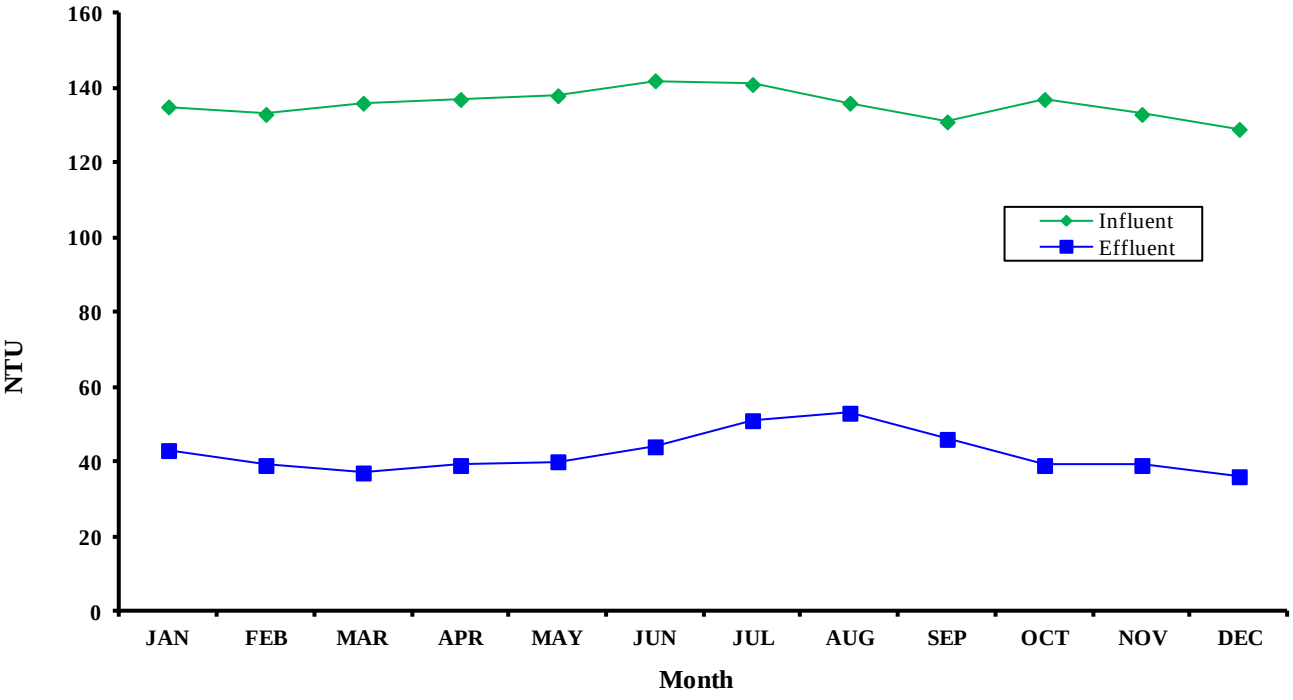
Hexane Extractable Material (mg/L)
2012 Monthly Averages



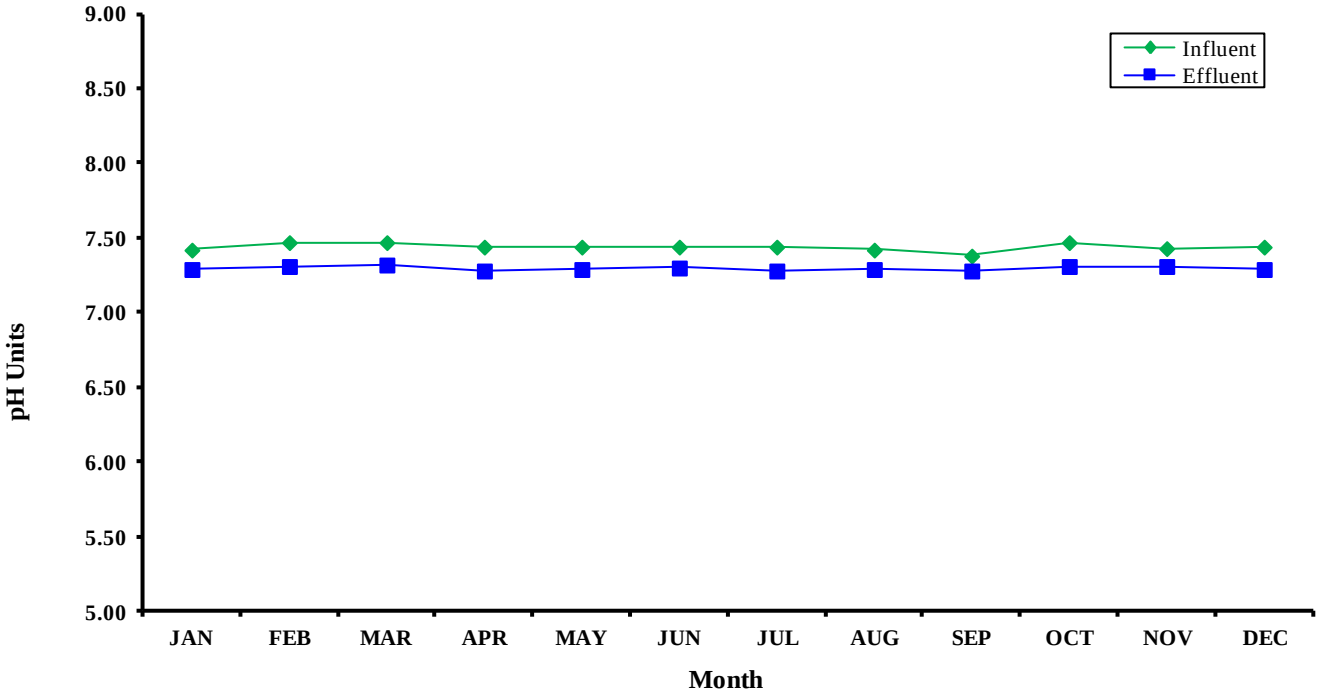
Floatables (mg/L)
2012 Monthly Averages



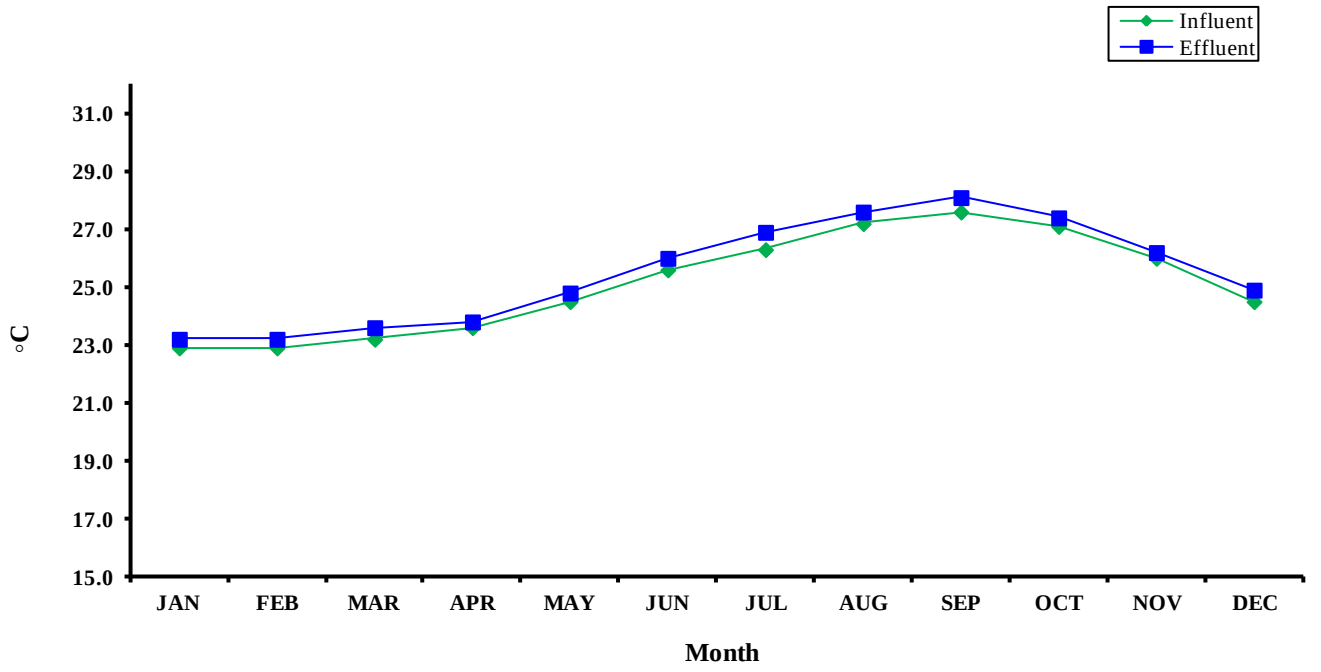
Turbidity (NTU)
2012 Monthly Averages



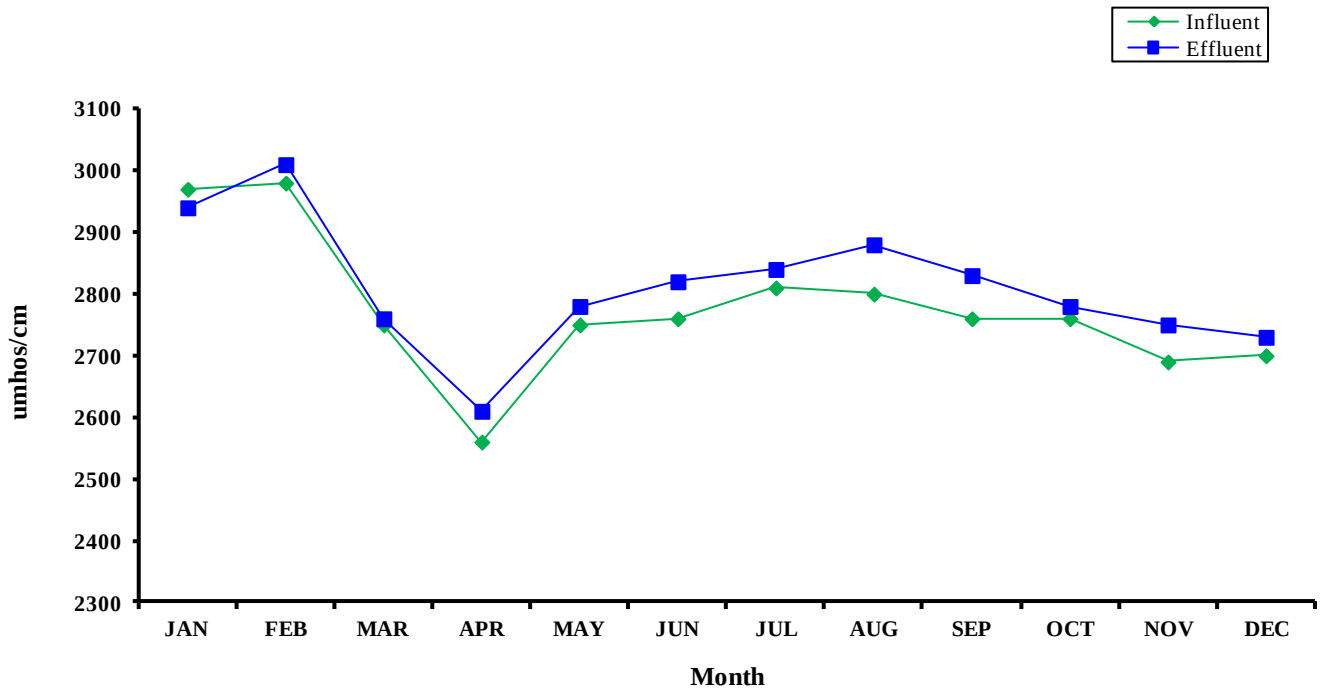
pH
2012 Monthly Averages



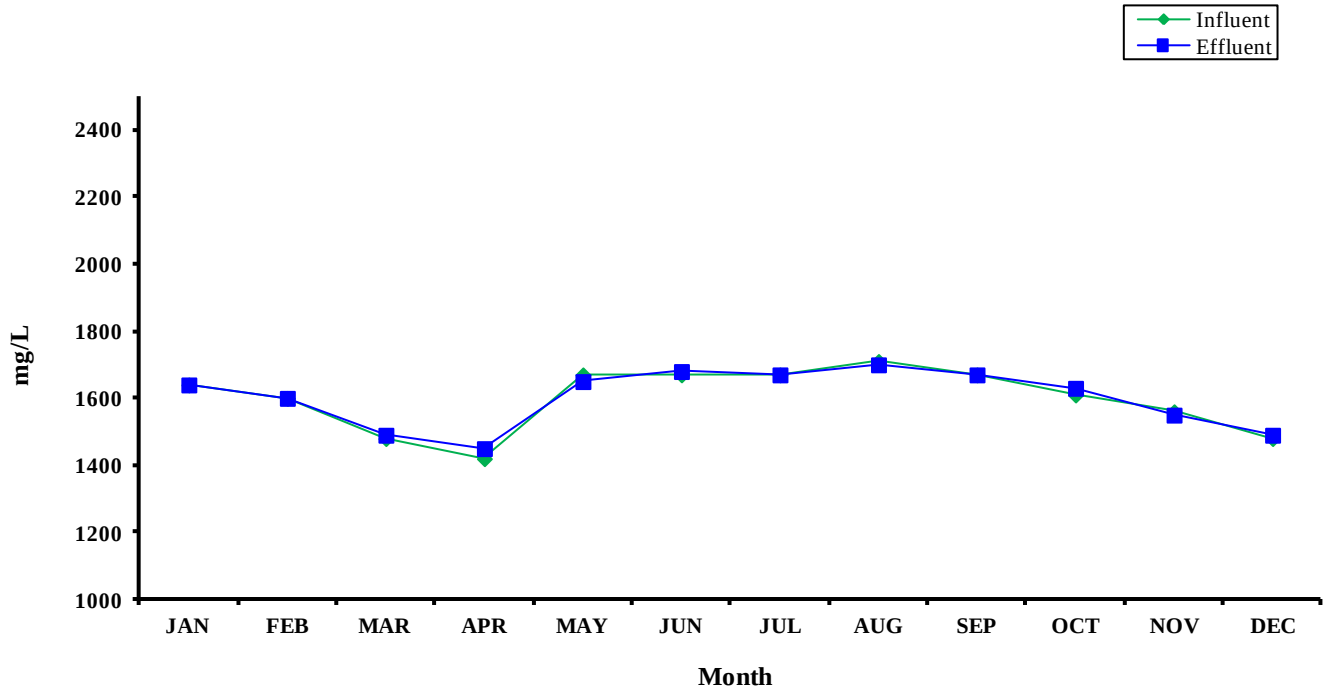
Temperature (˚C)
2012 Monthly Averages



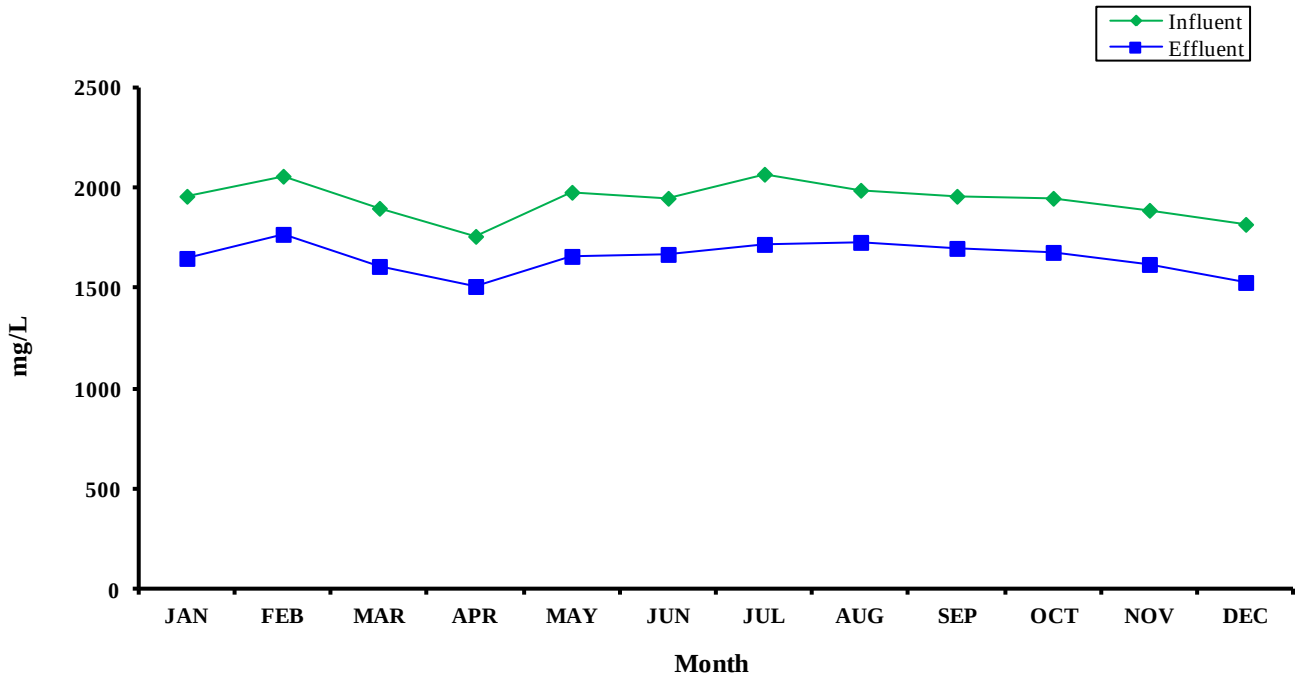
Conductivity (umhos/cm)
2012 Monthly Averages



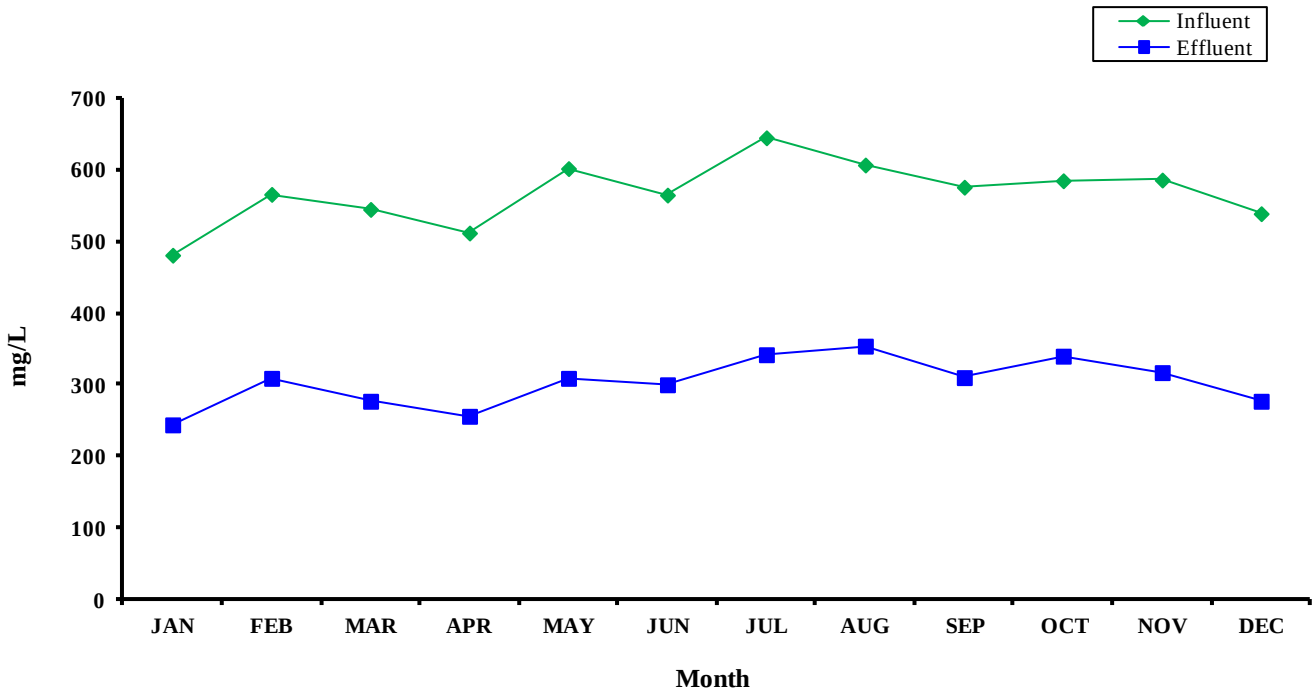
Total Dissolved Solids (mg/L)
2012 Monthly Averages



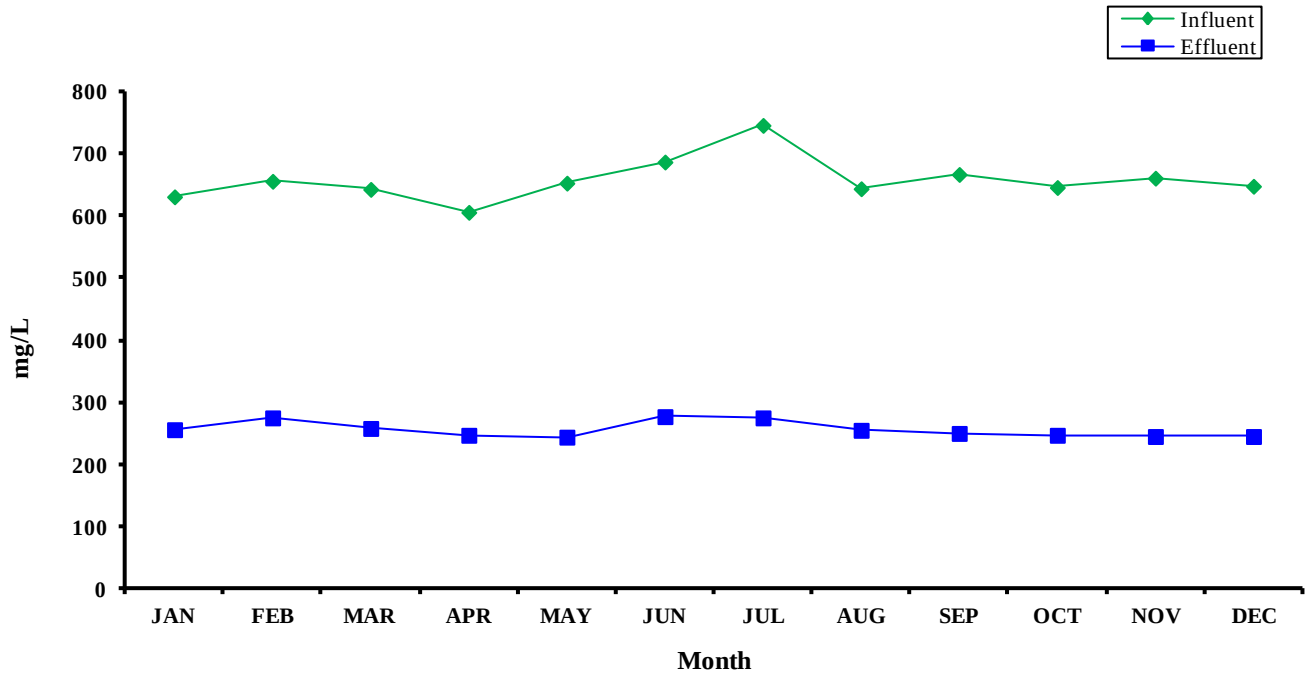
Total Solids (mg/L)
2012 Monthly Averages



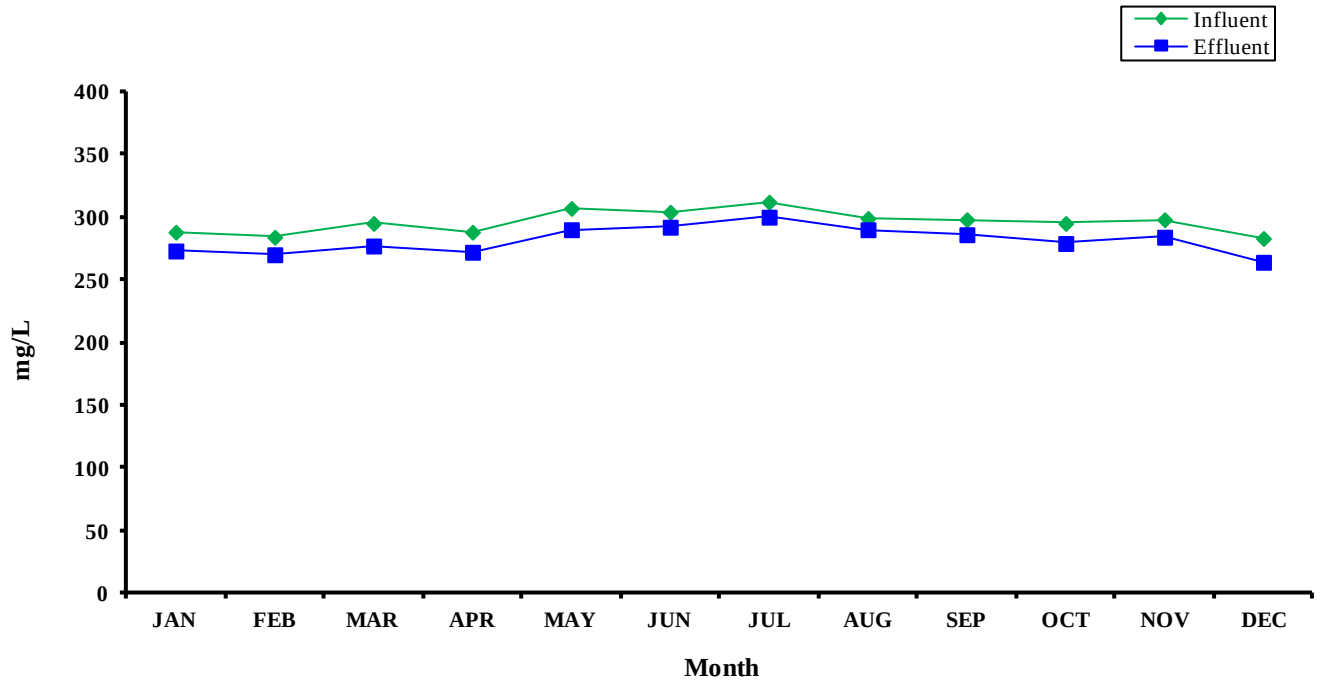
Total Volatile Solids (mg/L)
2012 Monthly Averages



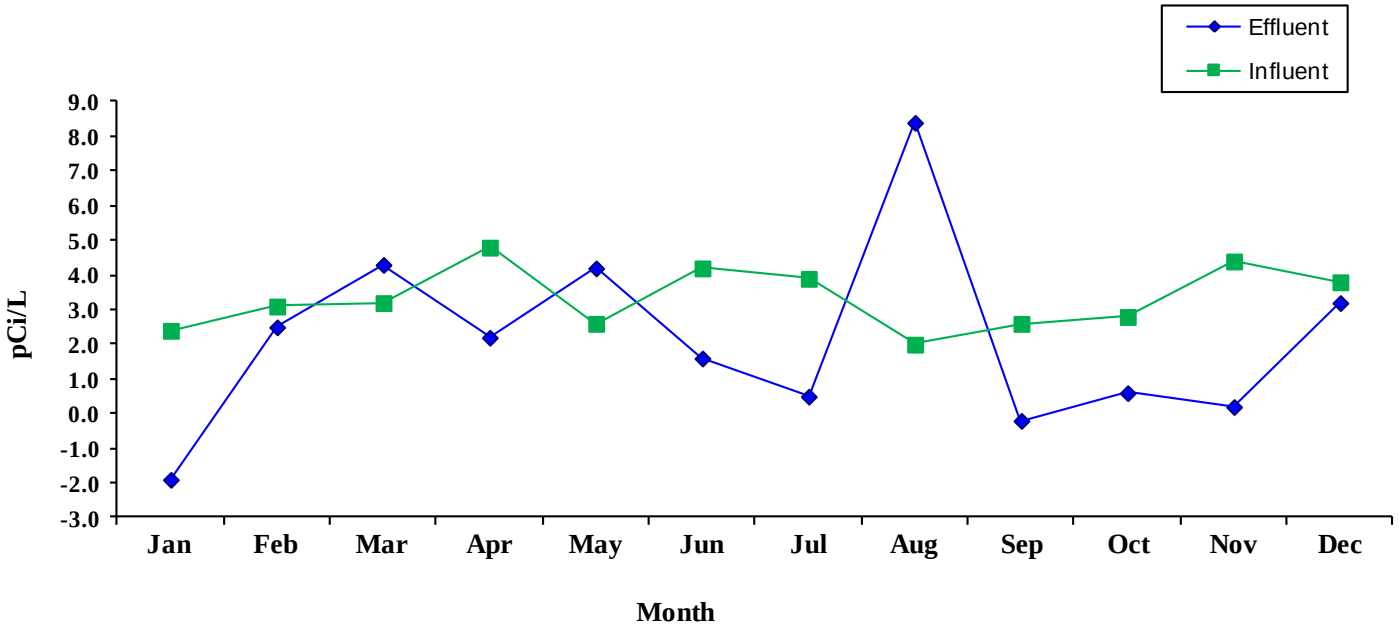
Chemical Oxygen Demand (mg/L)
2012 Monthly Averages



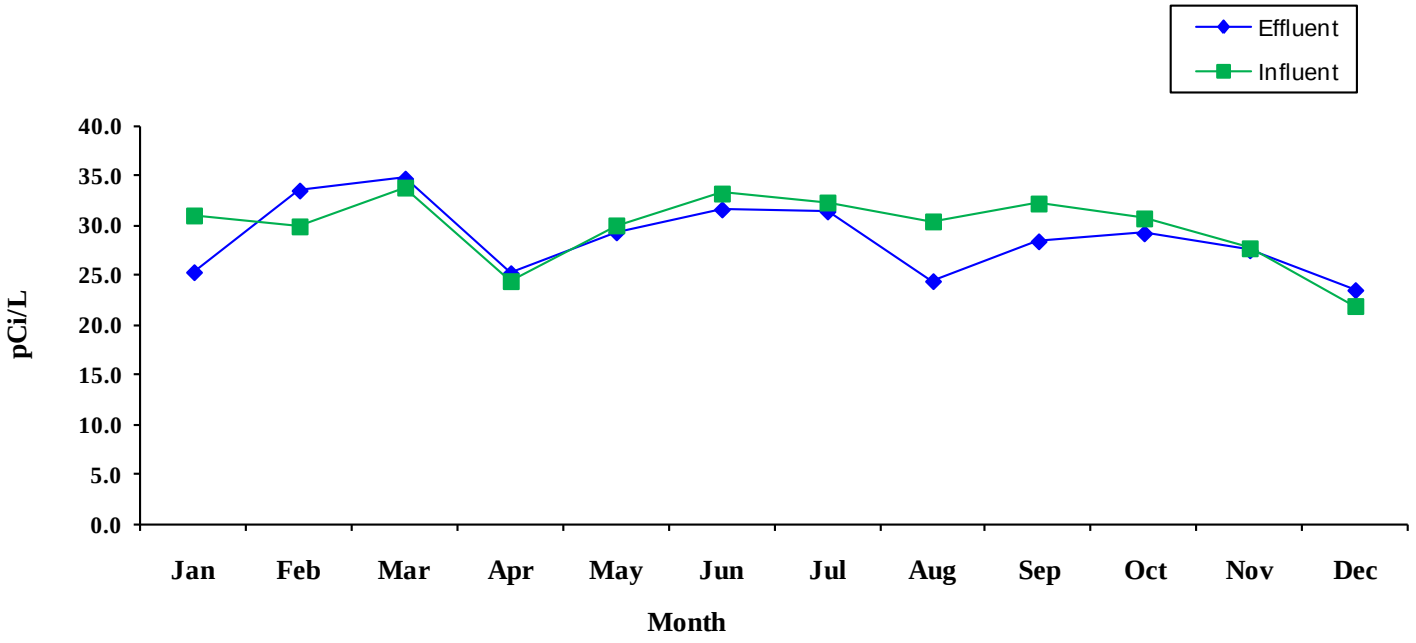
Alkalinity (mg/L)
2012 Monthly Averages

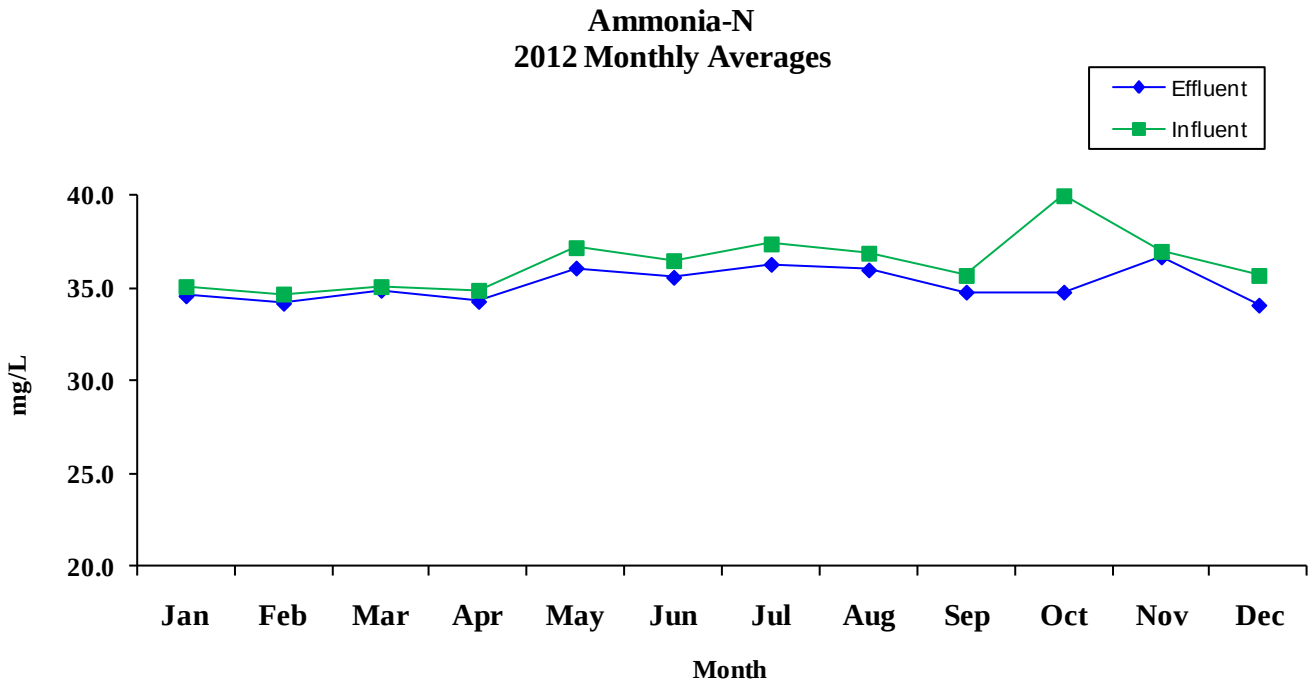


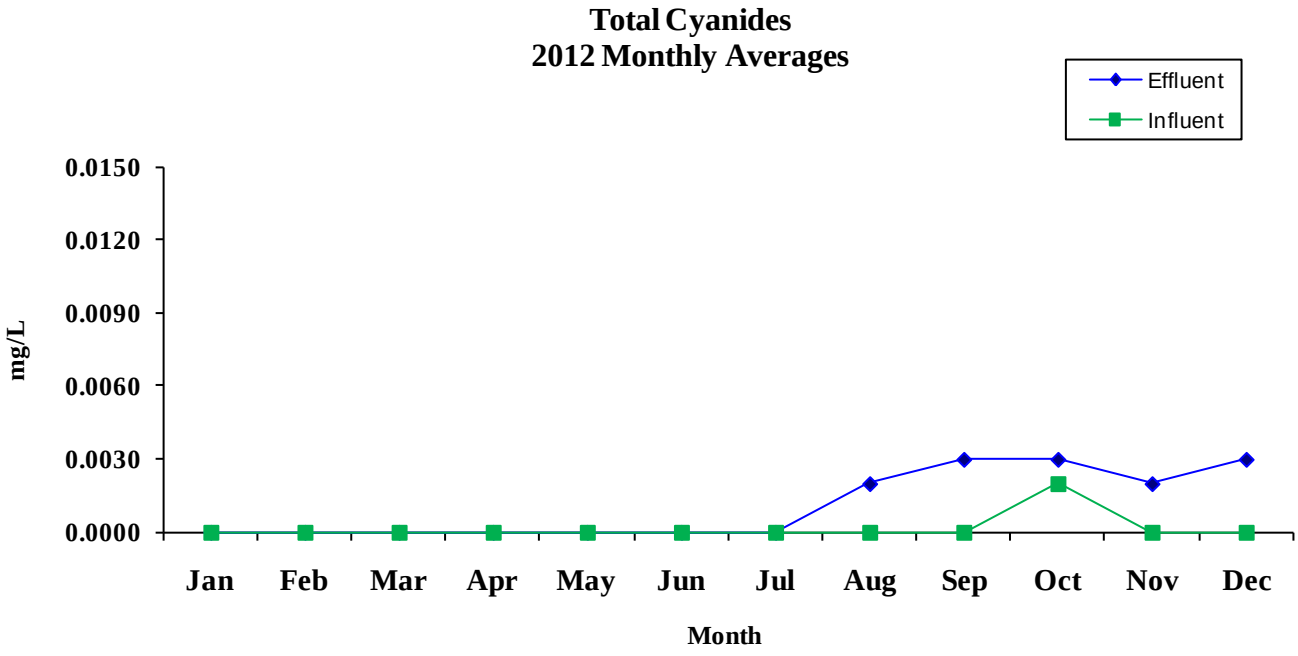
Alpha Radiation
2012 Monthly Averages

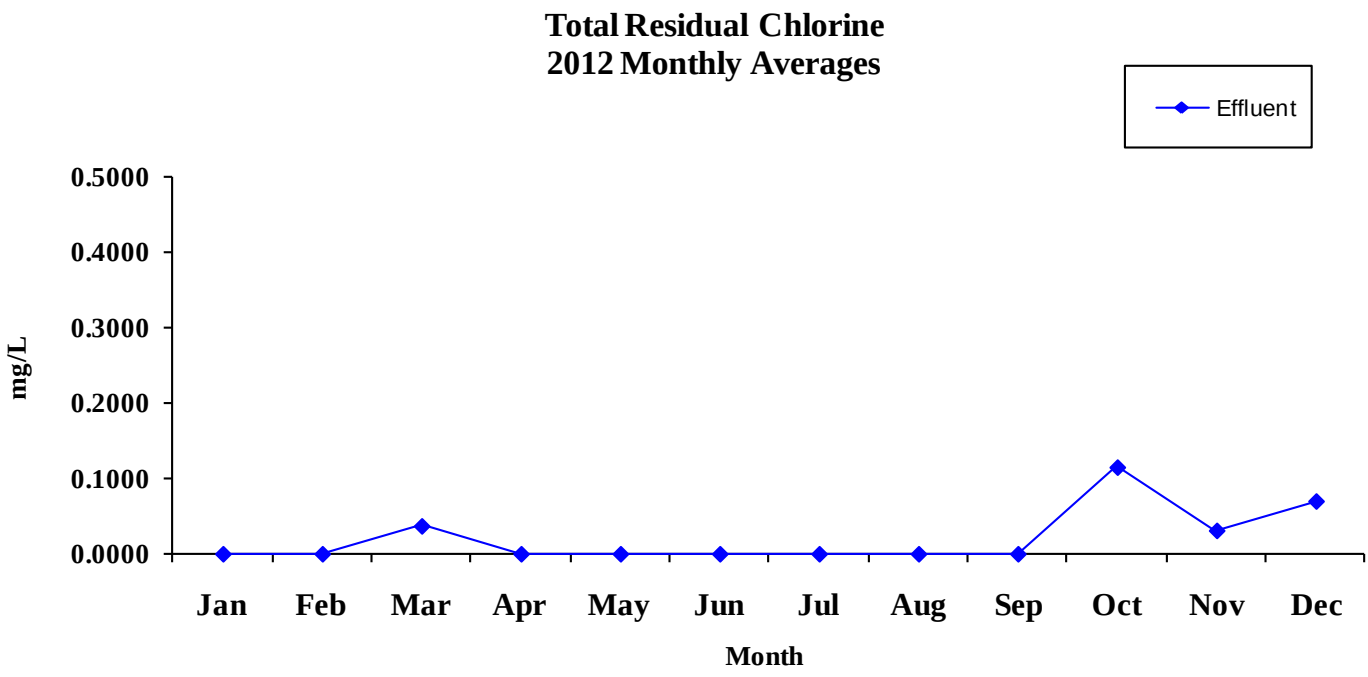


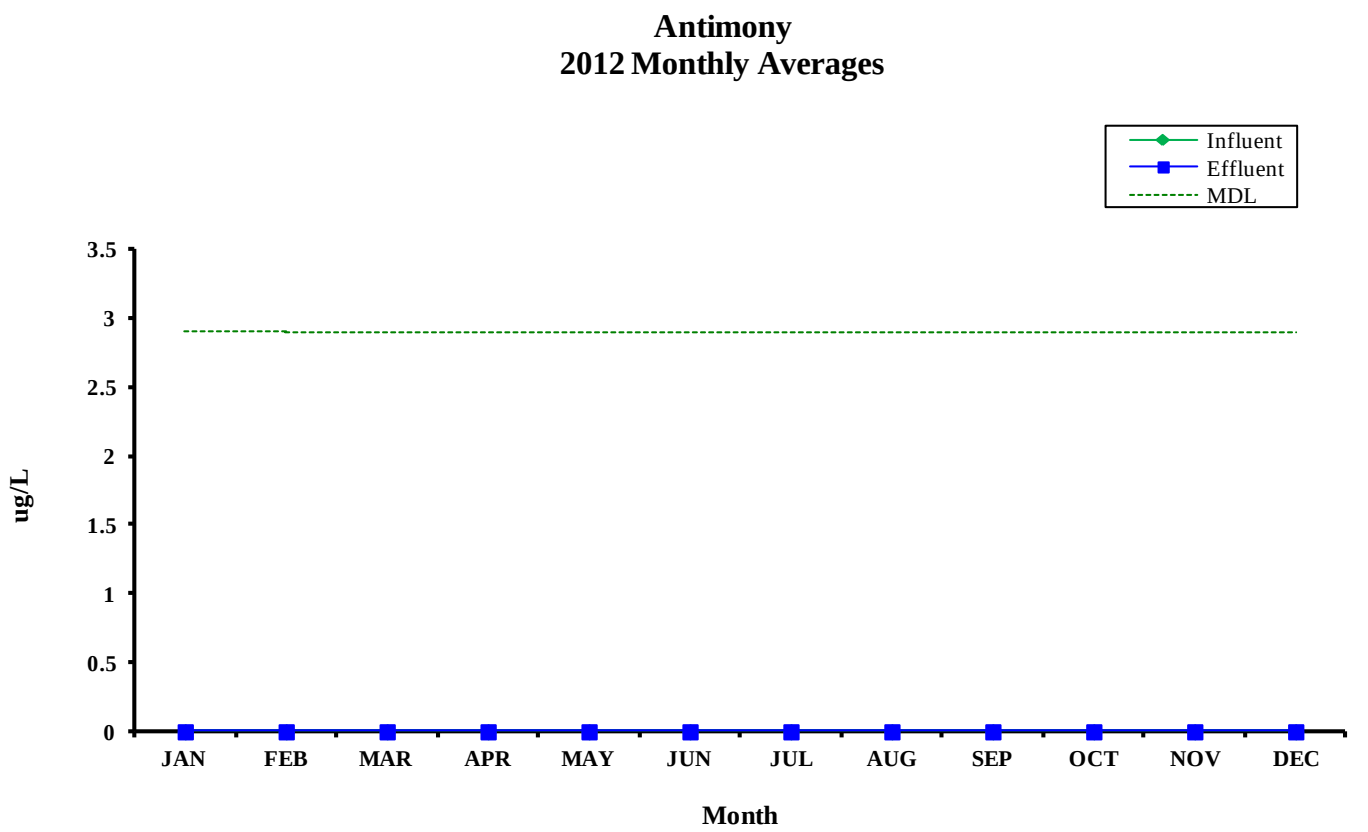
Beta Radiation
2012 Monthly Averages



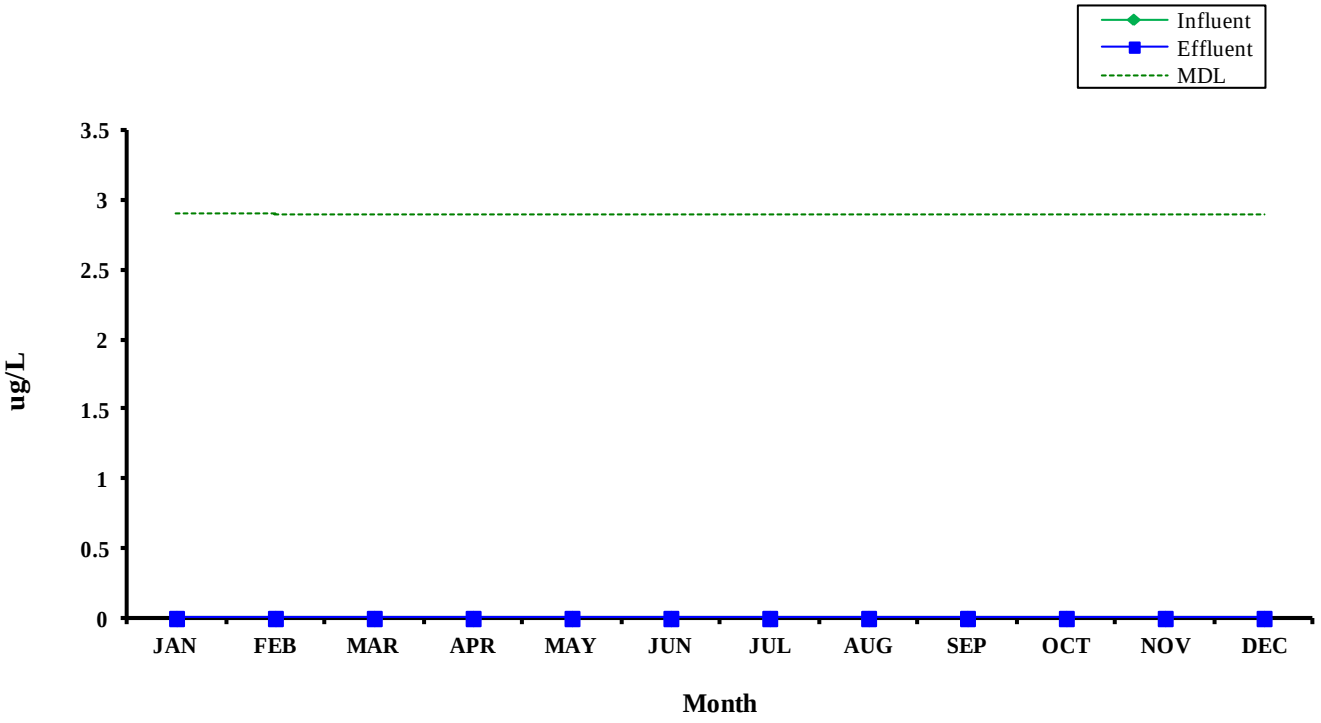

Ammonia-N
2012 Monthly Averages
Effluent
Influent
40.0
35.0
30.0
25.0
20.0
mg/L
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month


Total Cyanides
2012 Monthly Averages
Effluent
Influent
0.0150
0.0120
0.0090
0.0060
0.0030
0.0000
mg/L
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month

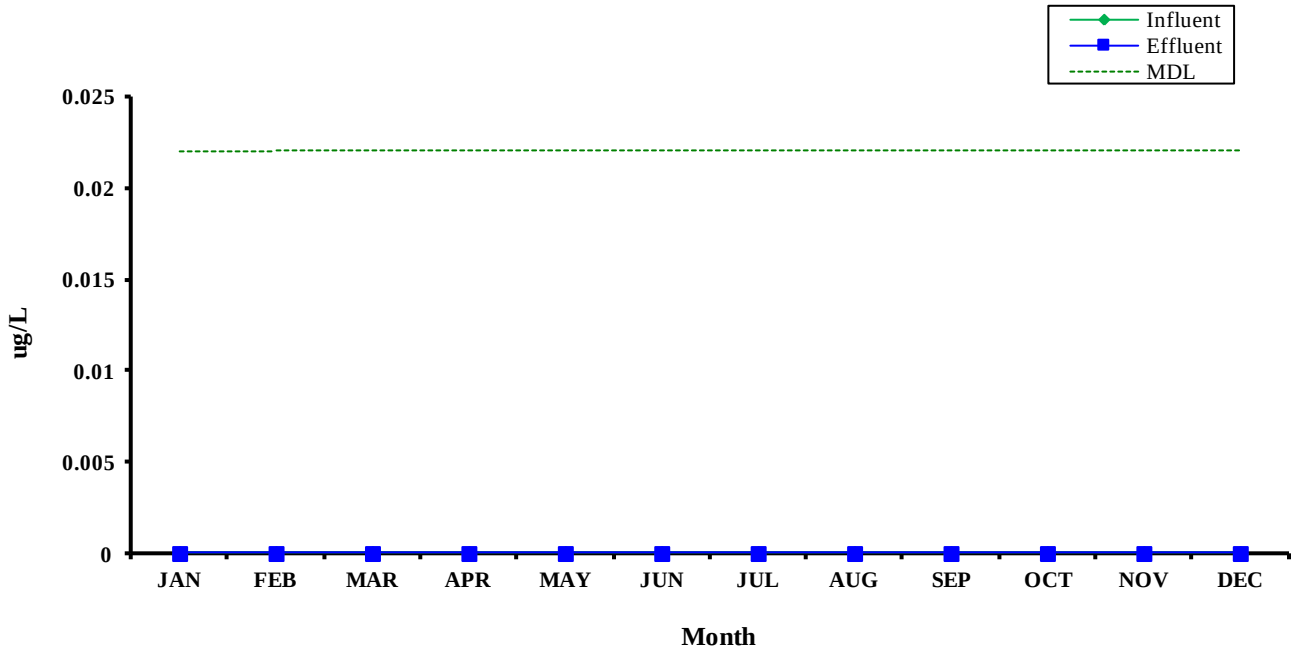

Total Residual Chlorine
2012 Monthly Averages
Effluent
0.5000
0.4000
0.3000
0.2000
0.1000
0.0000
mg/L
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Month


Antimony
2012 Monthly Averages
Influent
Effluent
MDL
3.5
3
2.5
2
1.5
1
0.5
0
ug/L
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Month

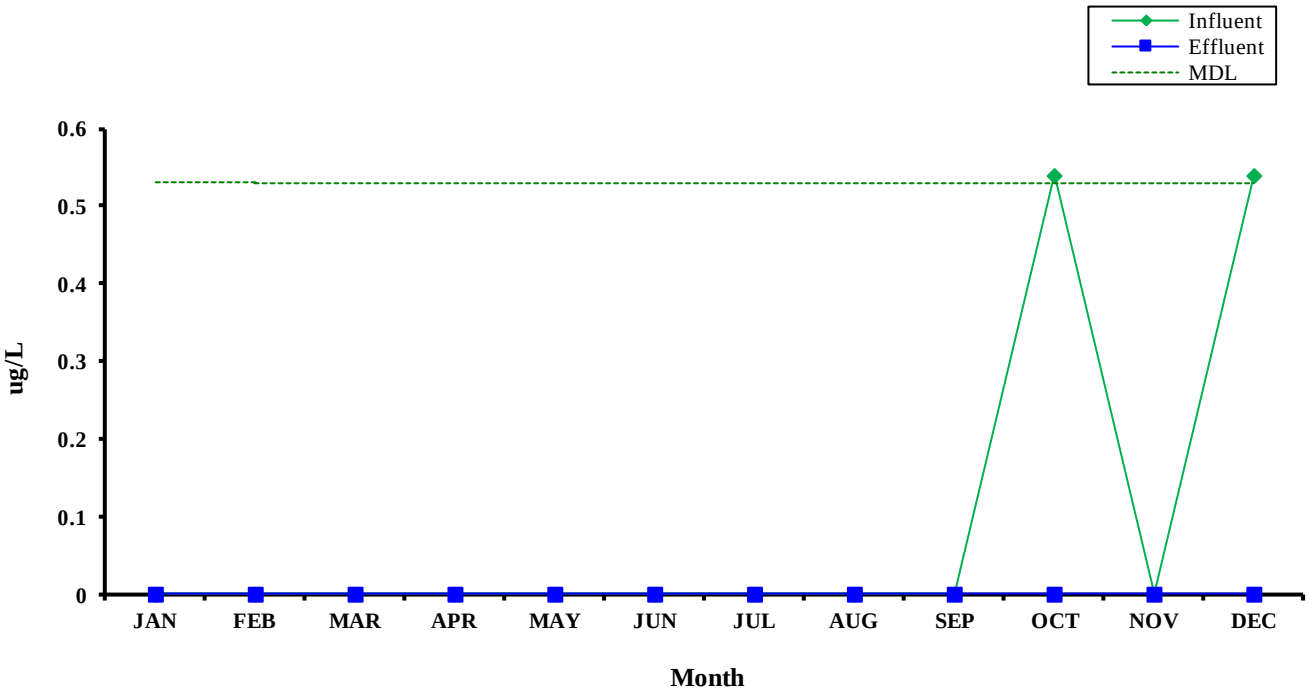
Antimony
2012 Monthly Averages



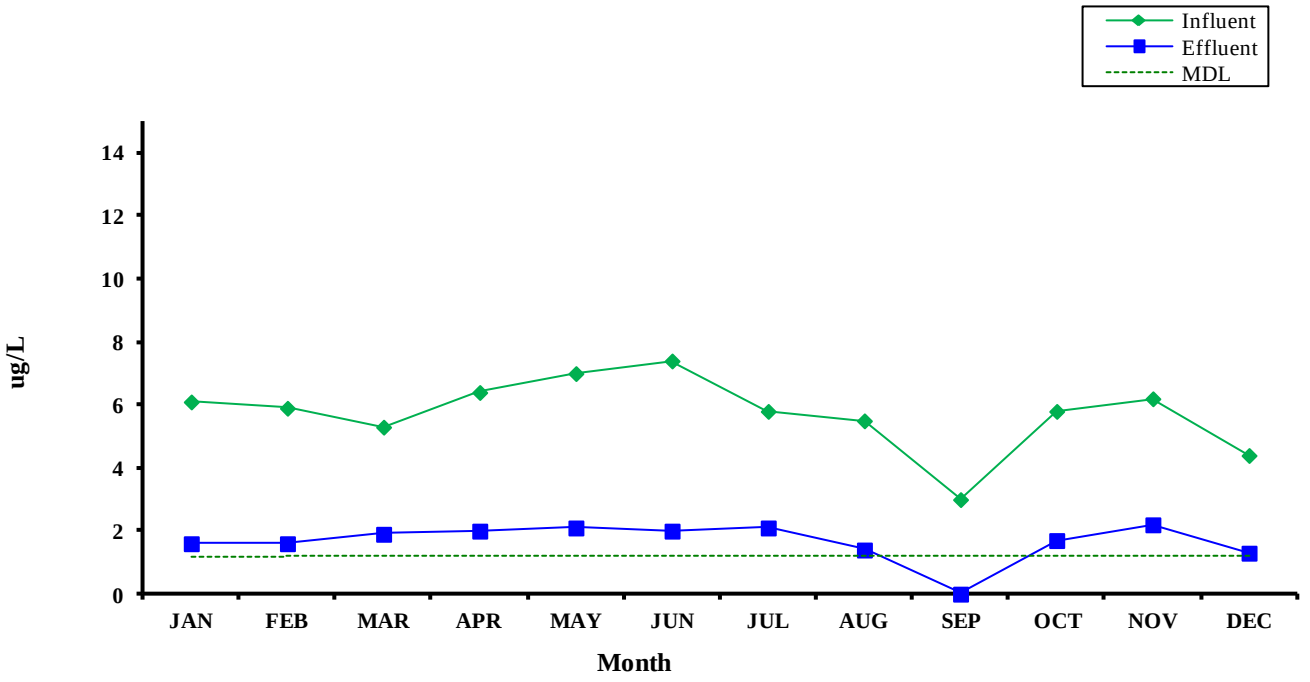
Beryllium
2012 Monthly Averages



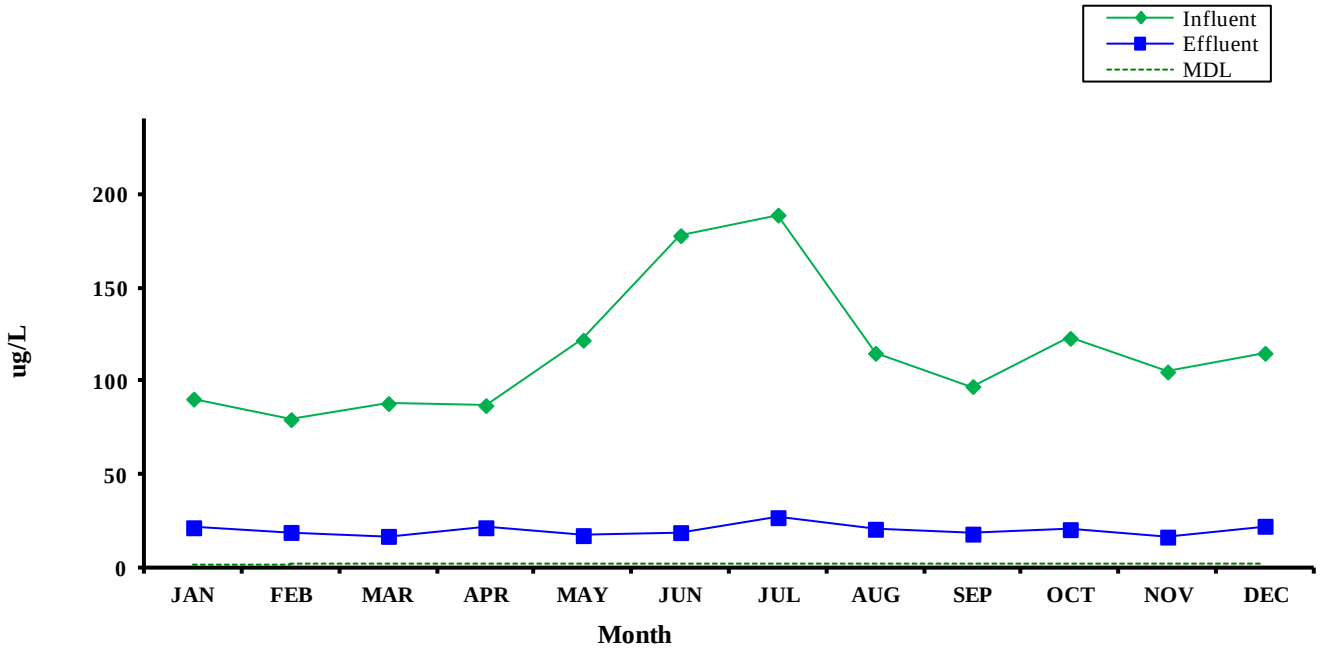
Cadmium
2012 Monthly Averages



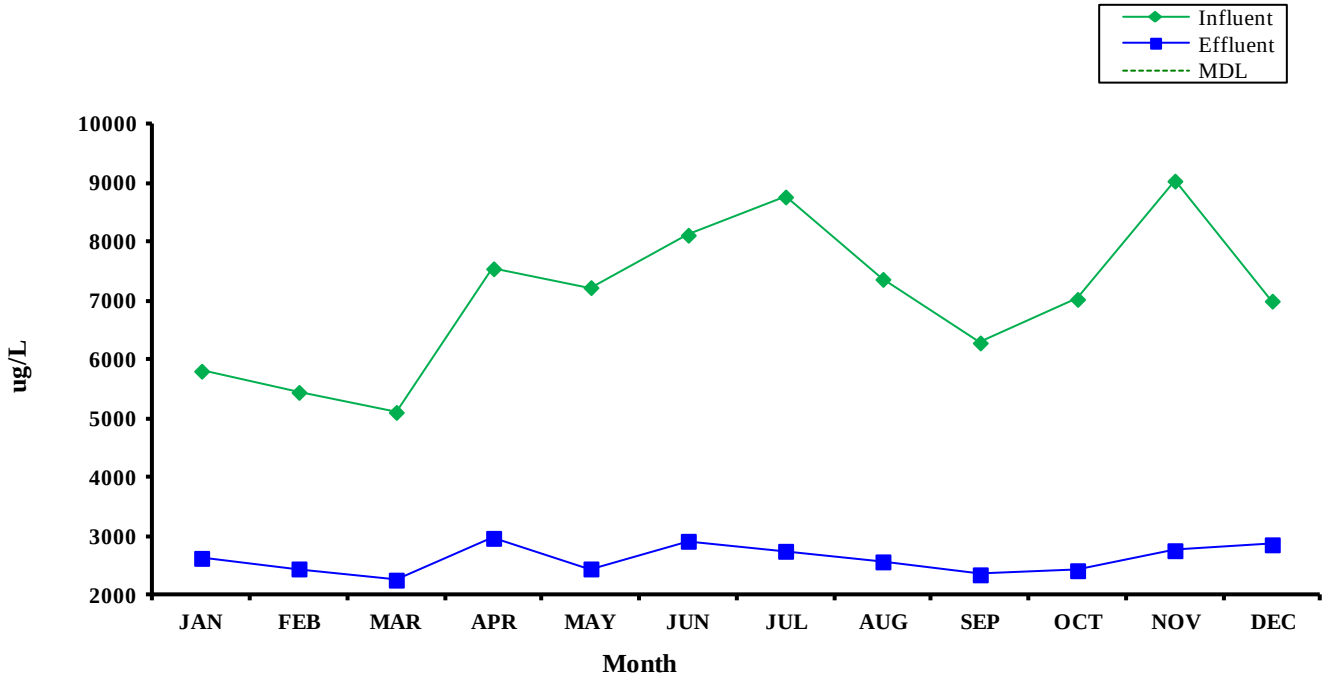
Chromium
2012 Monthly Averages



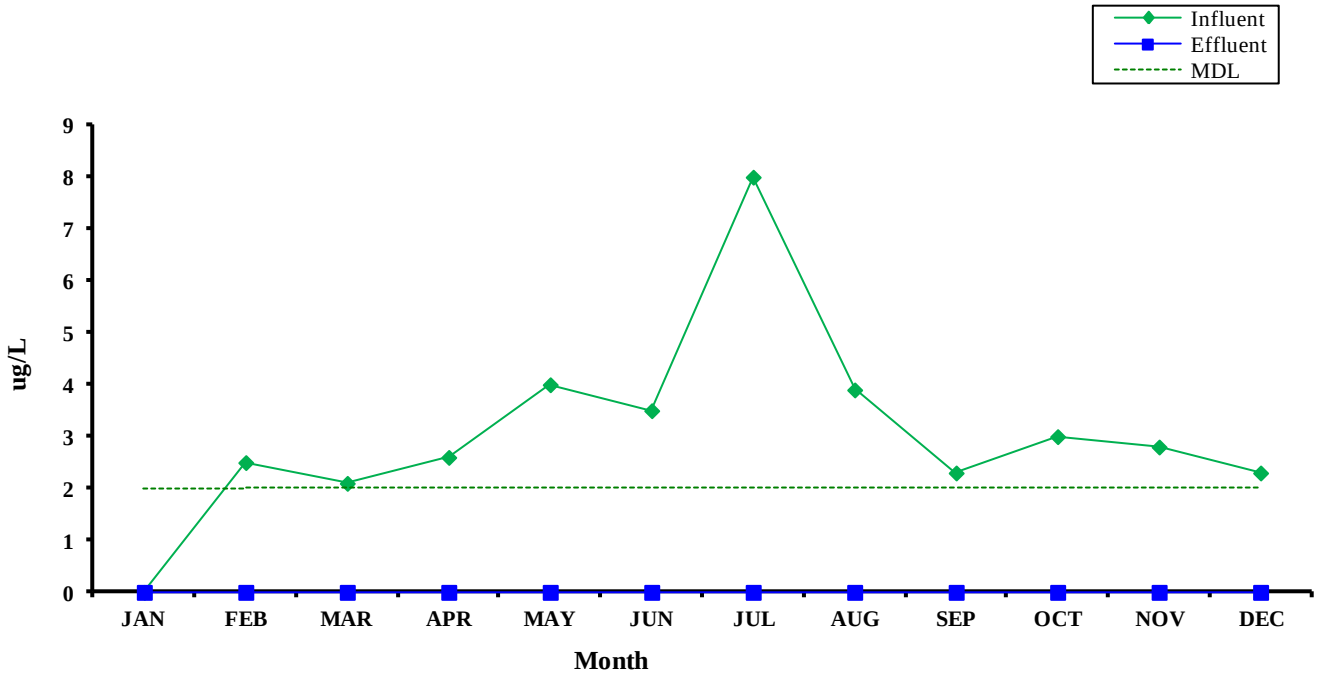
Copper
2012 Monthly Averages



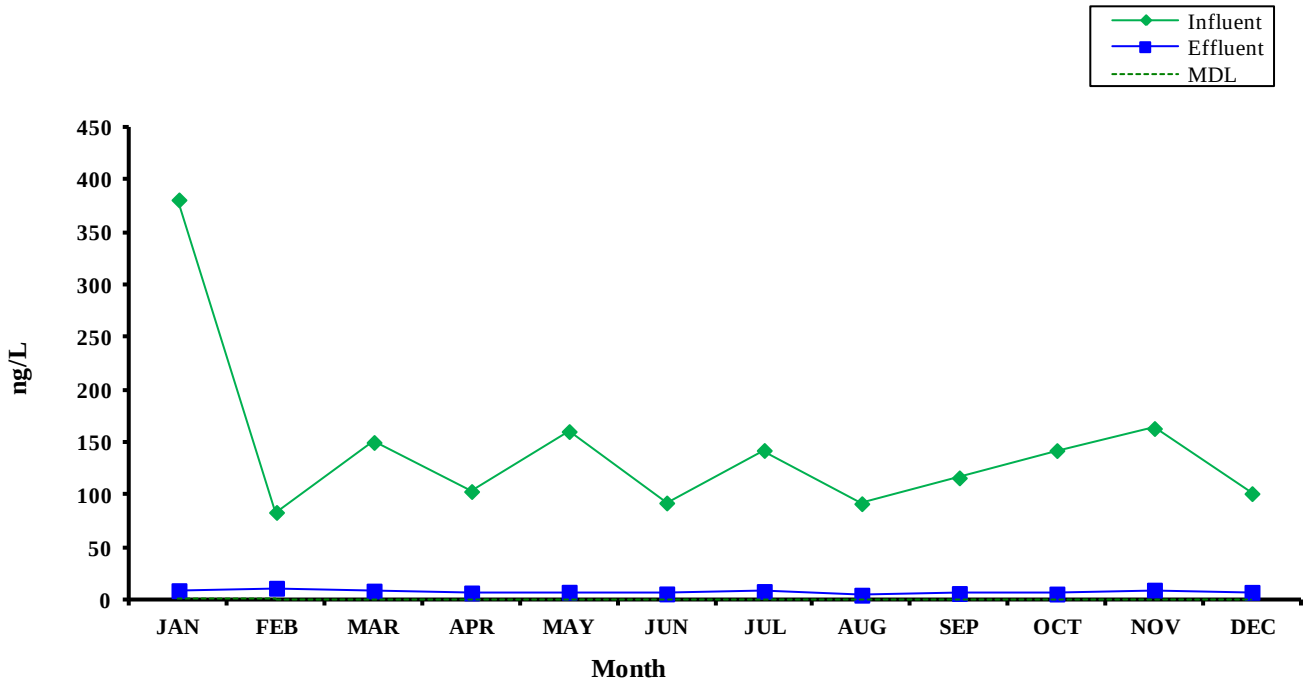
Iron
2012 Monthly Averages



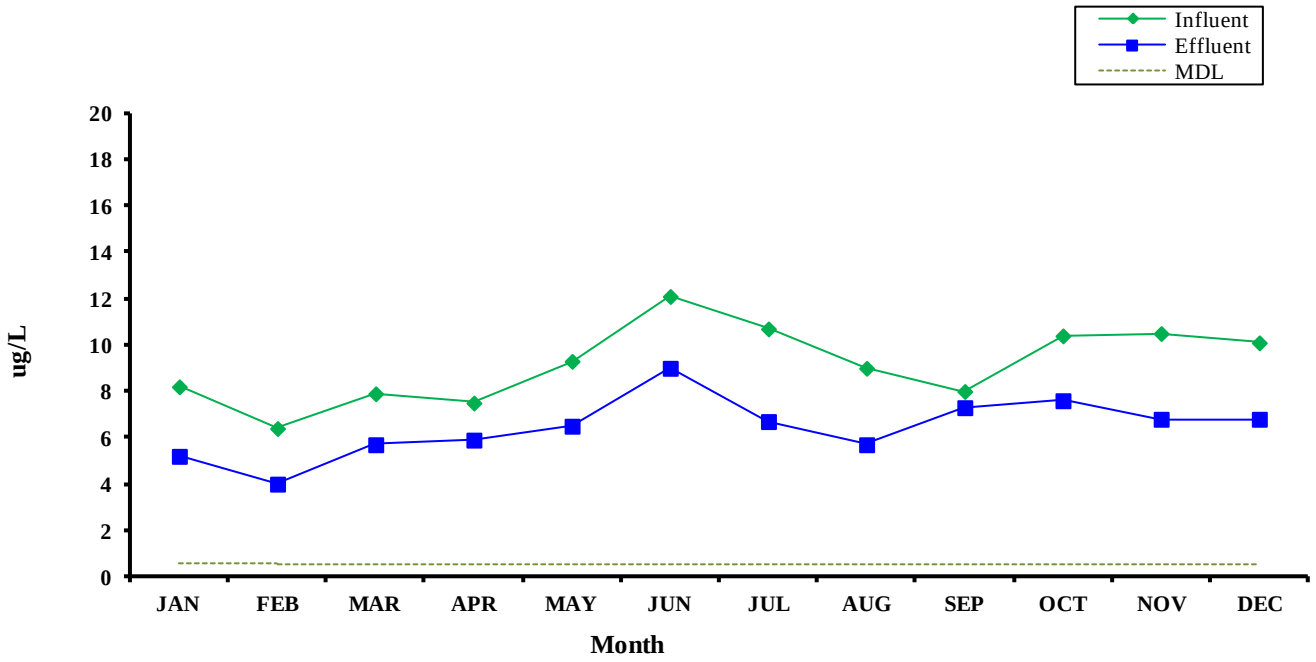
Lead
2012 Monthly Averages



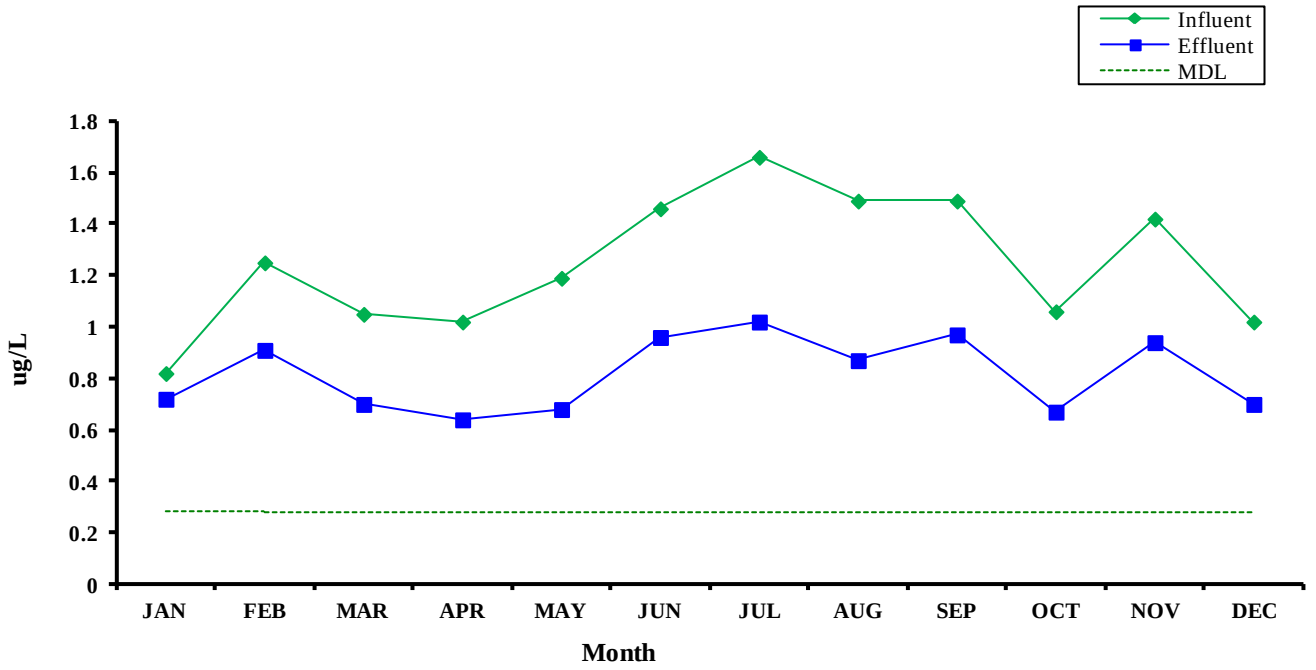
Mercury
2012 Monthly Averages



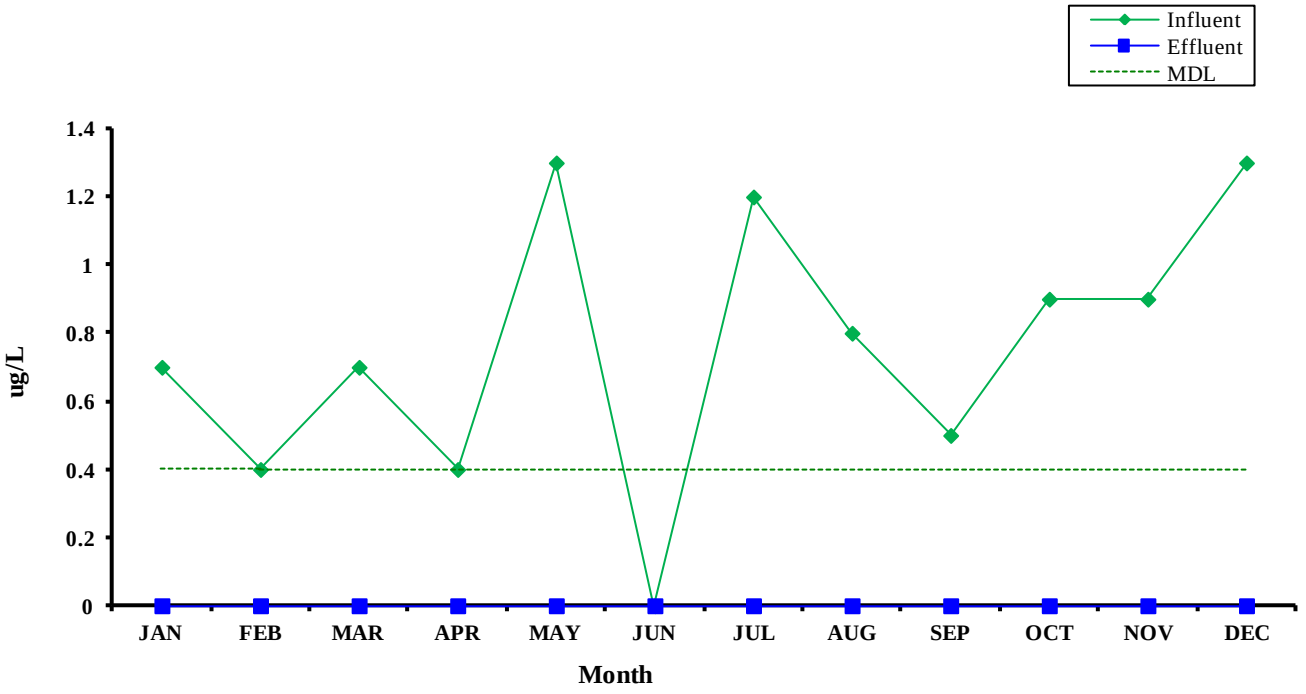
Nickel
2012 Monthly Averages



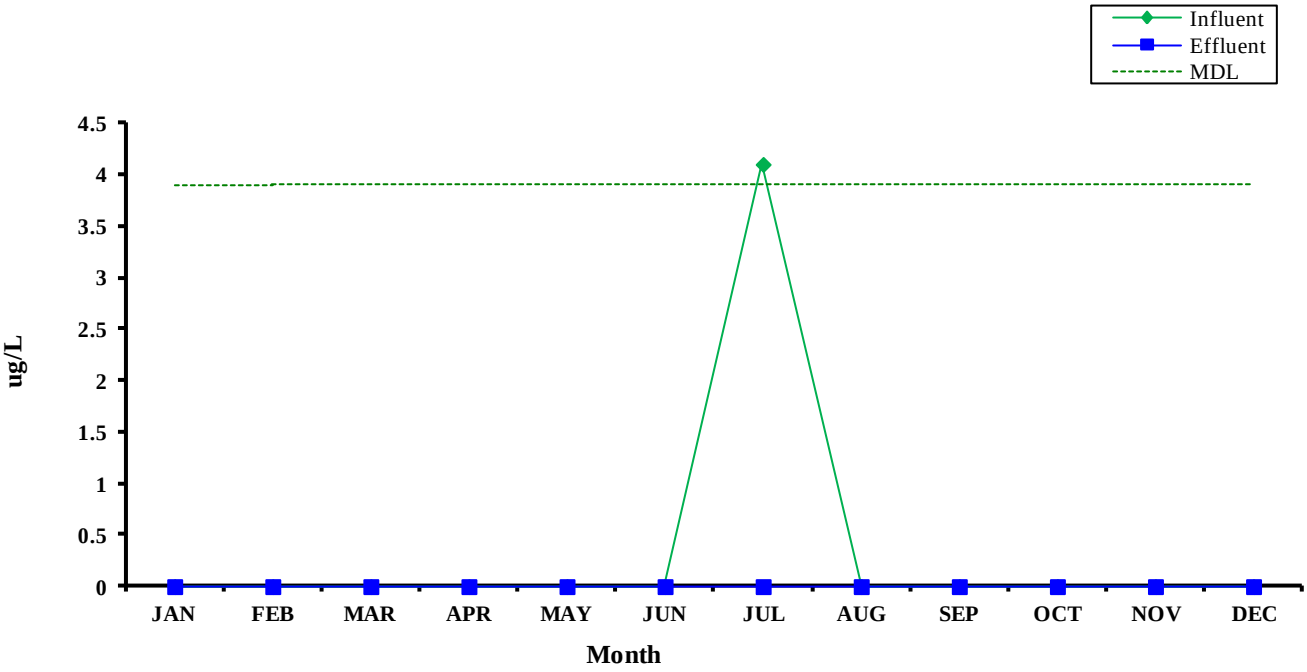
Selenium
2012 Monthly Averages



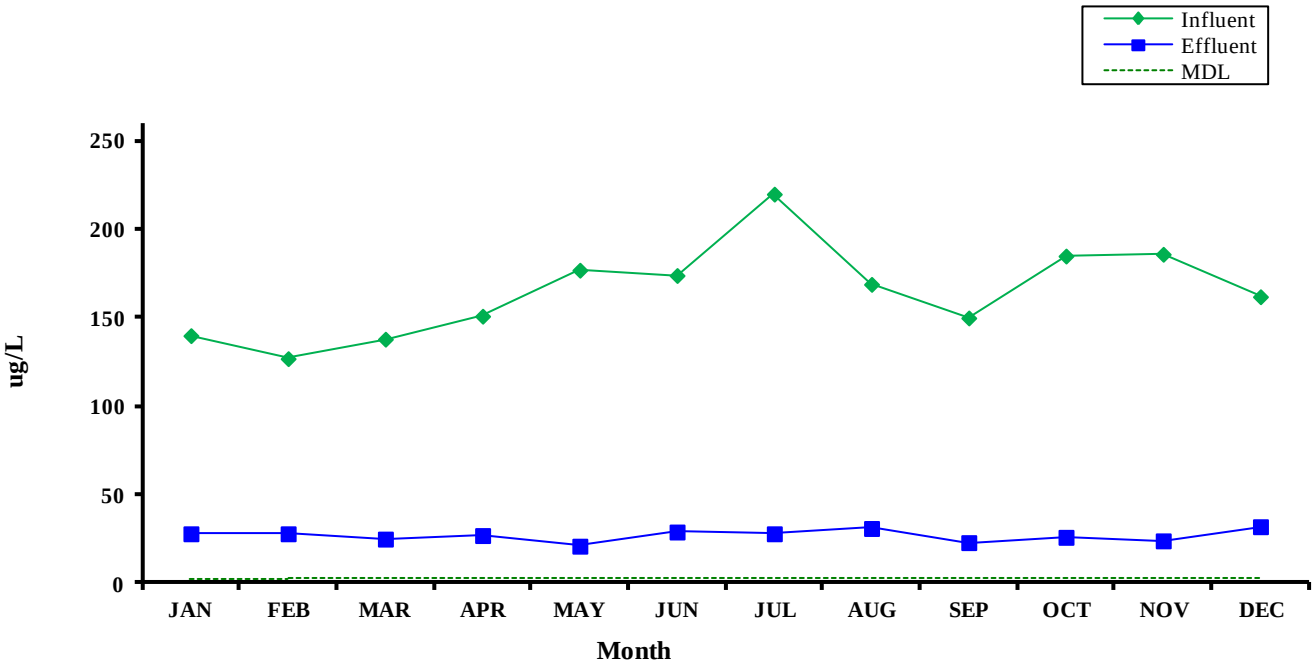
Silver
2012 Monthly Averages



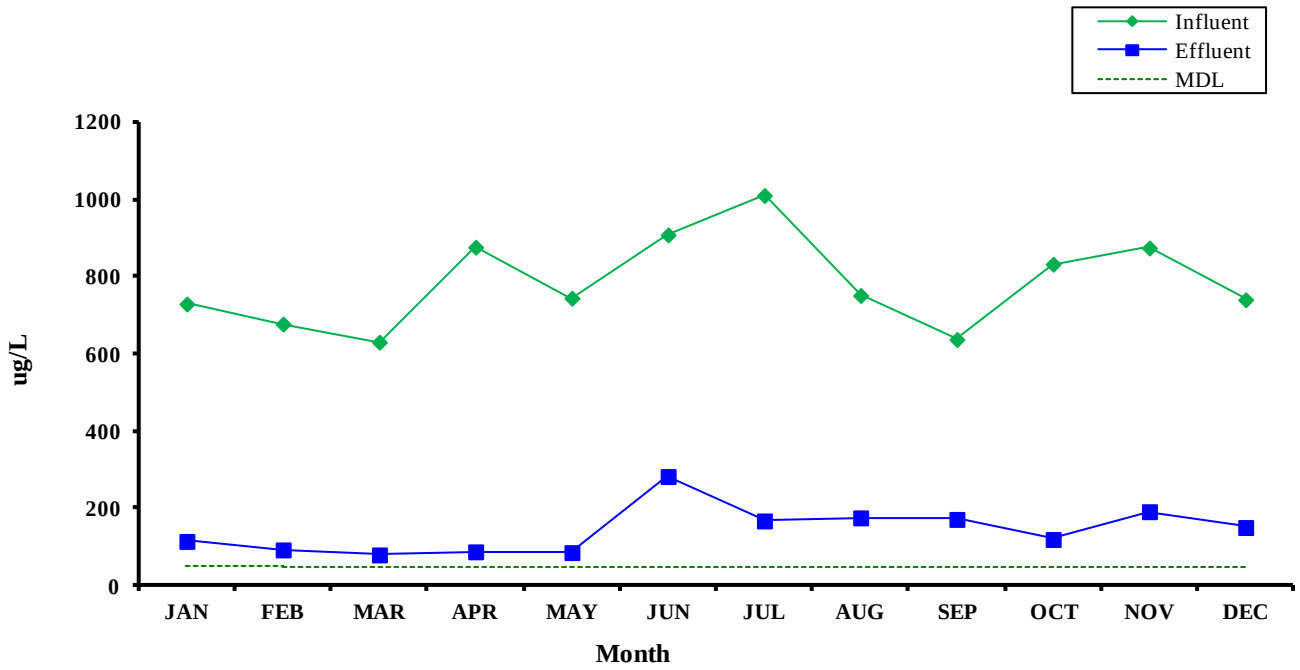
Thallium
2012 Monthly Averages



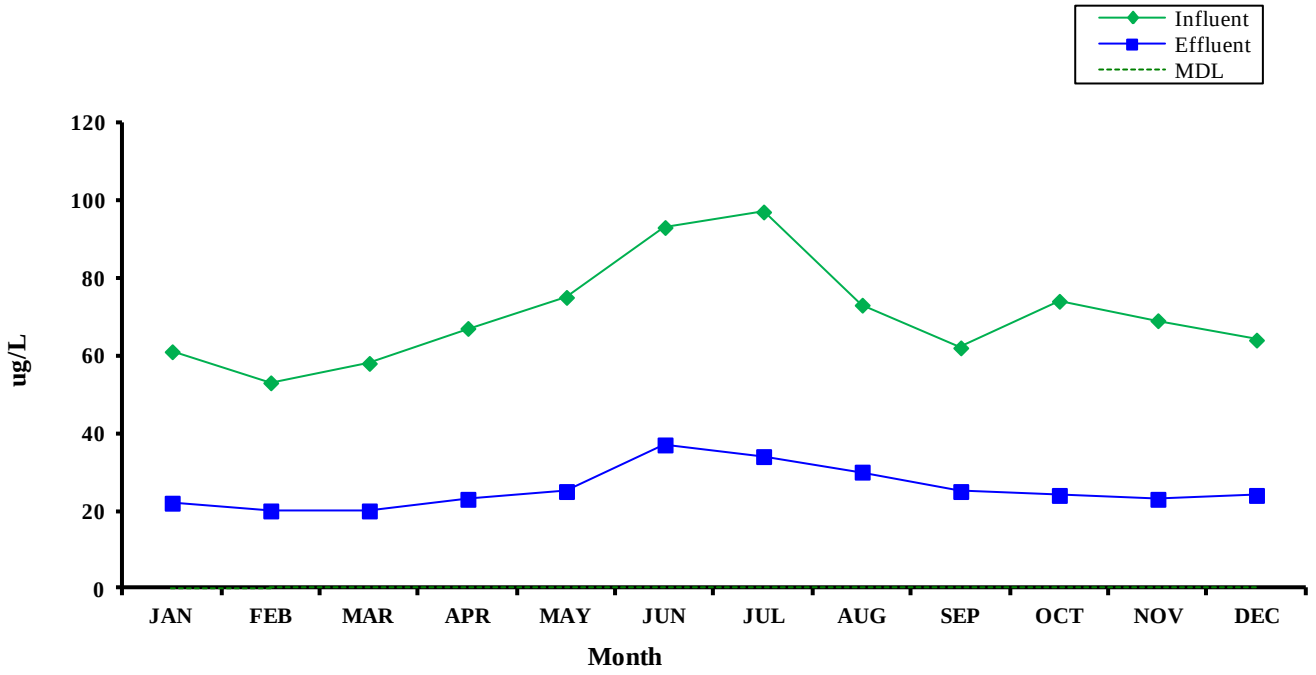
Zinc
2012 Monthly Averages



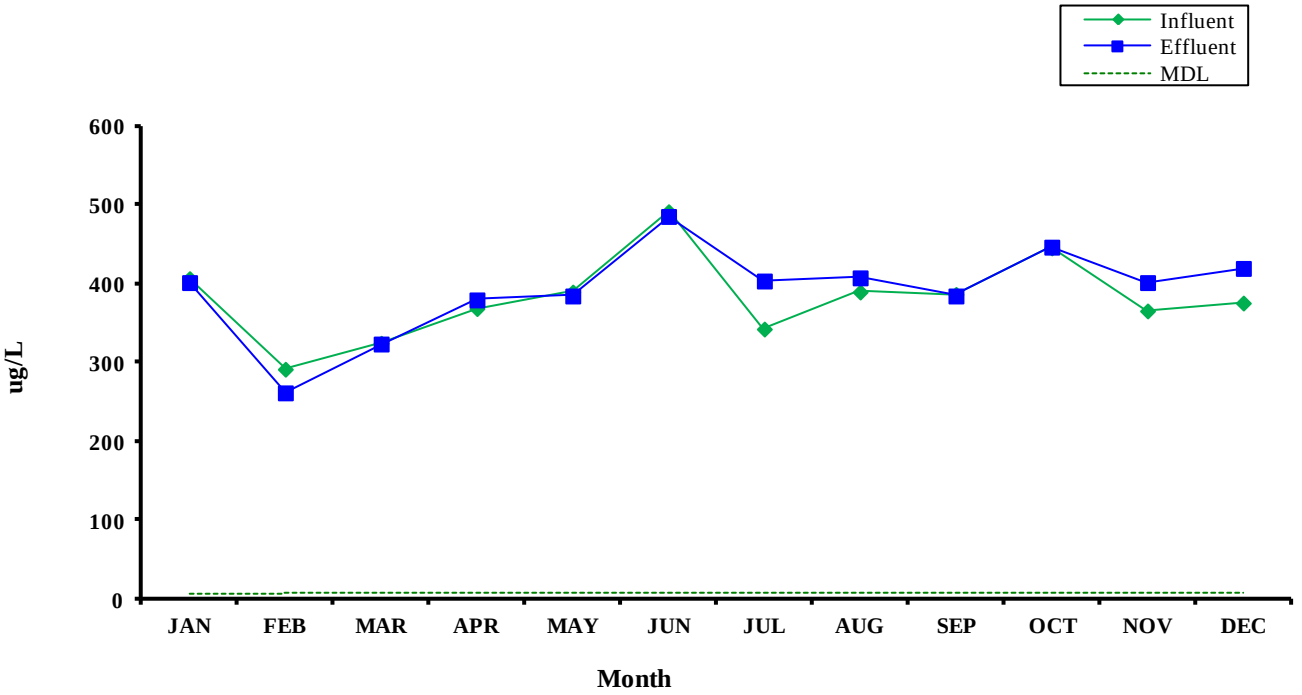
Aluminum
2012 Monthly Averages



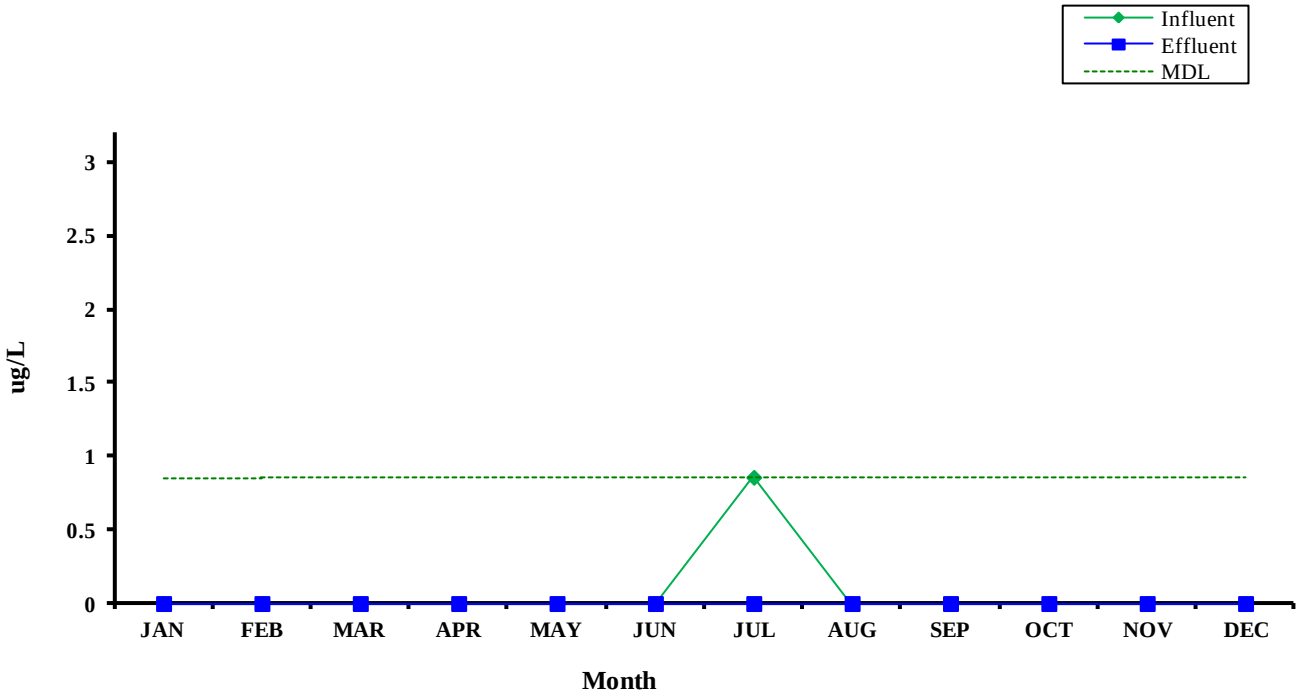
Barium
2012 Monthly Averages



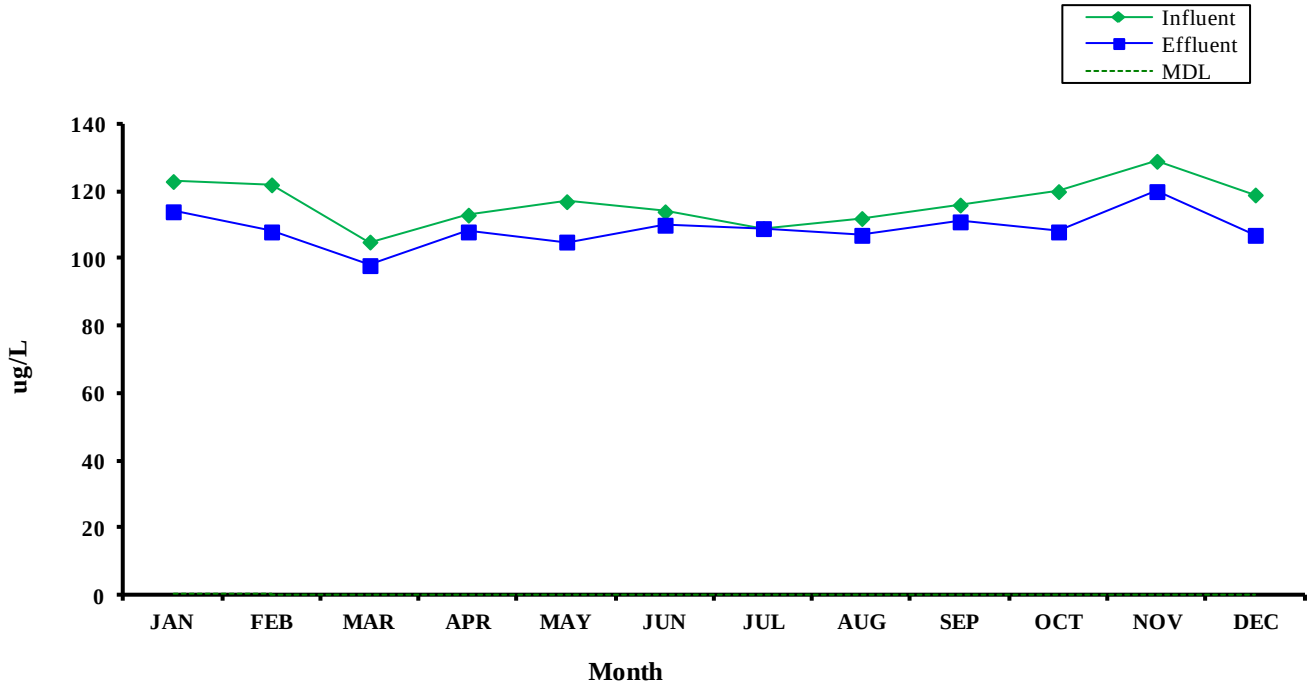
Boron
2012 Monthly Averages



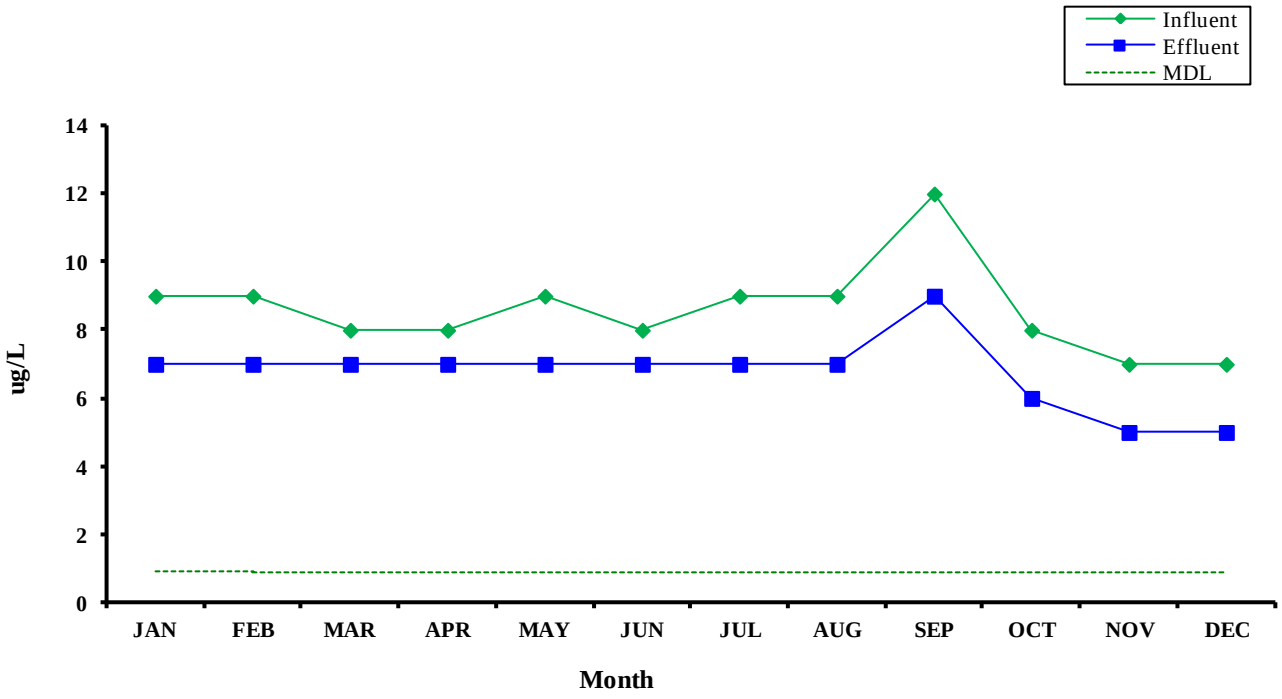
Cobalt
2012 Monthly Averages



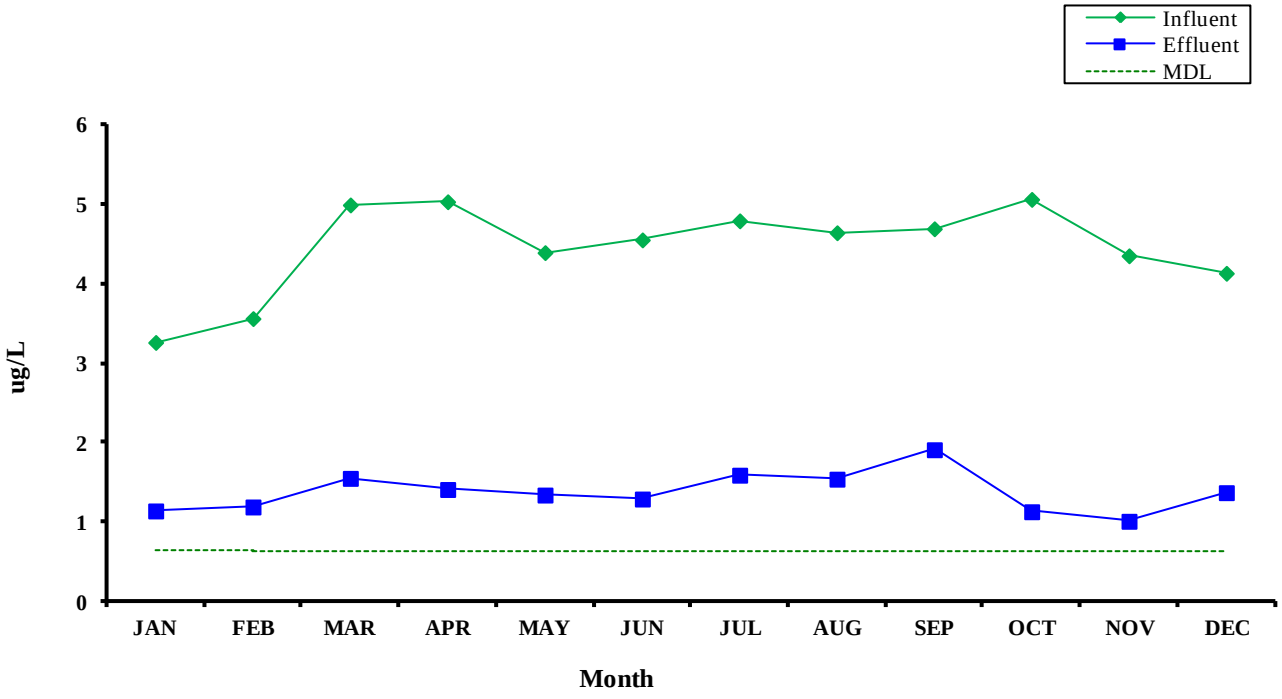
Manganese
2012 Monthly Averages



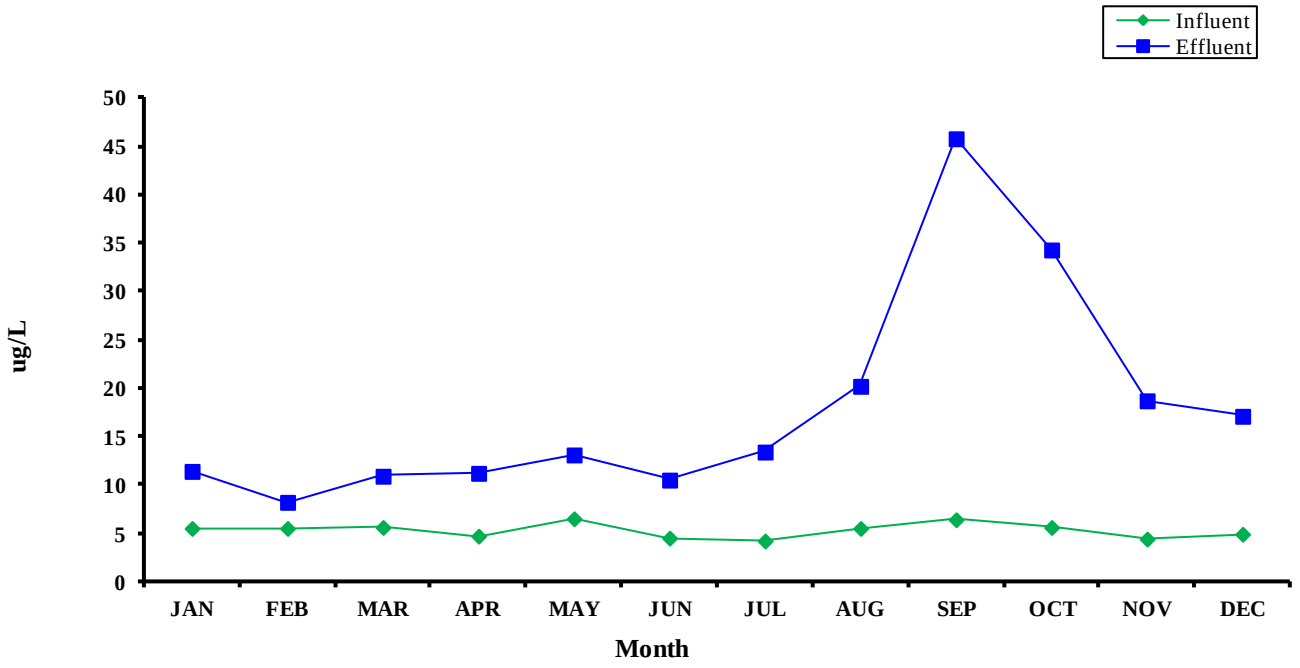
Molybdenum
2012 Monthly Averages



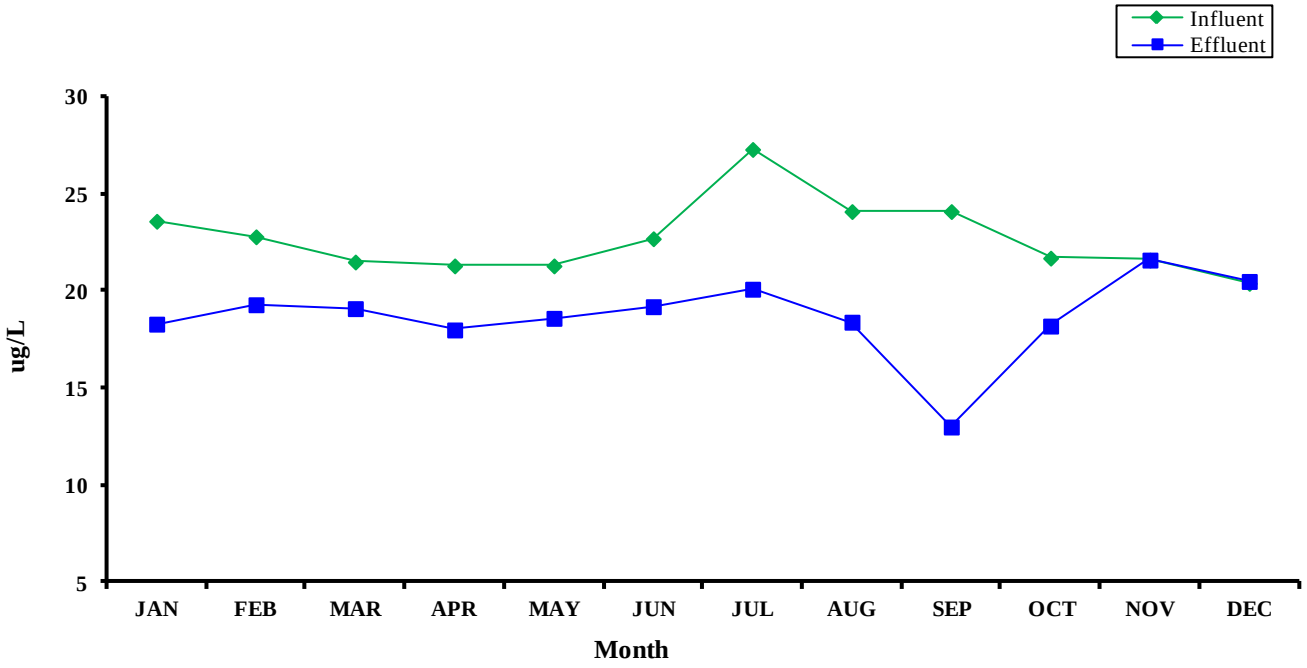
Vanadium
2012 Monthly Average



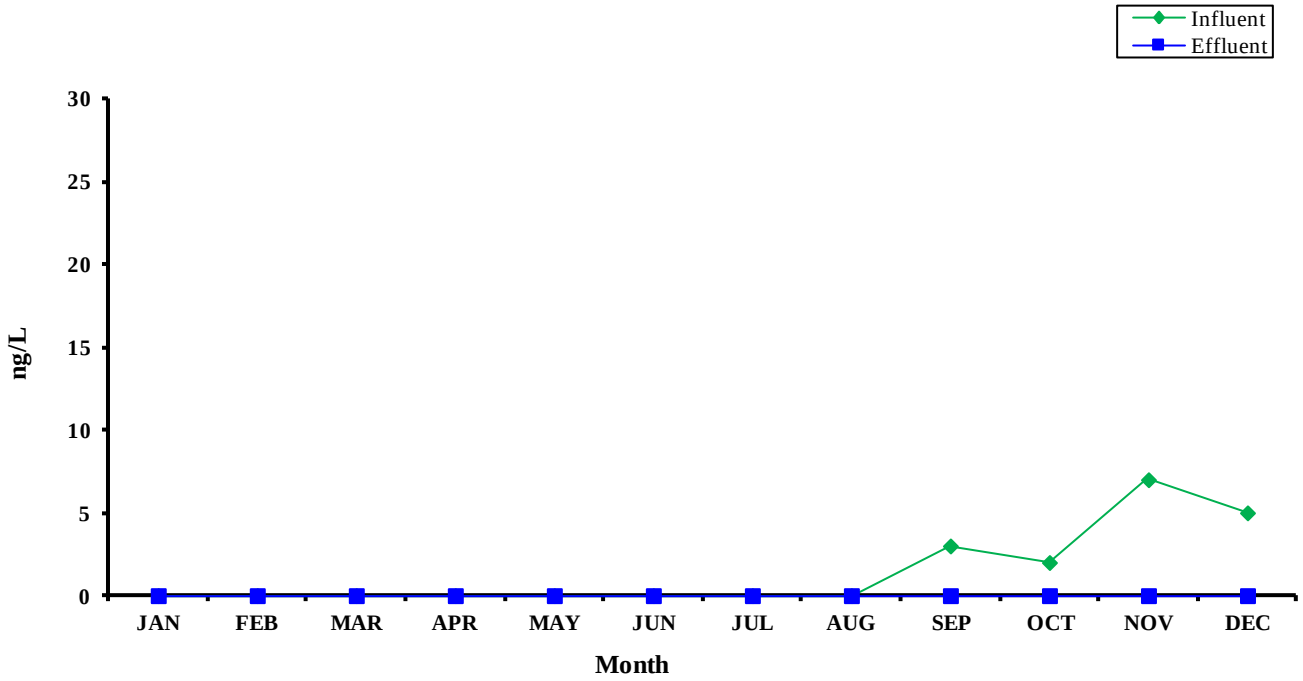
Purgeables Organic Compunds
2012 Monthly Averages



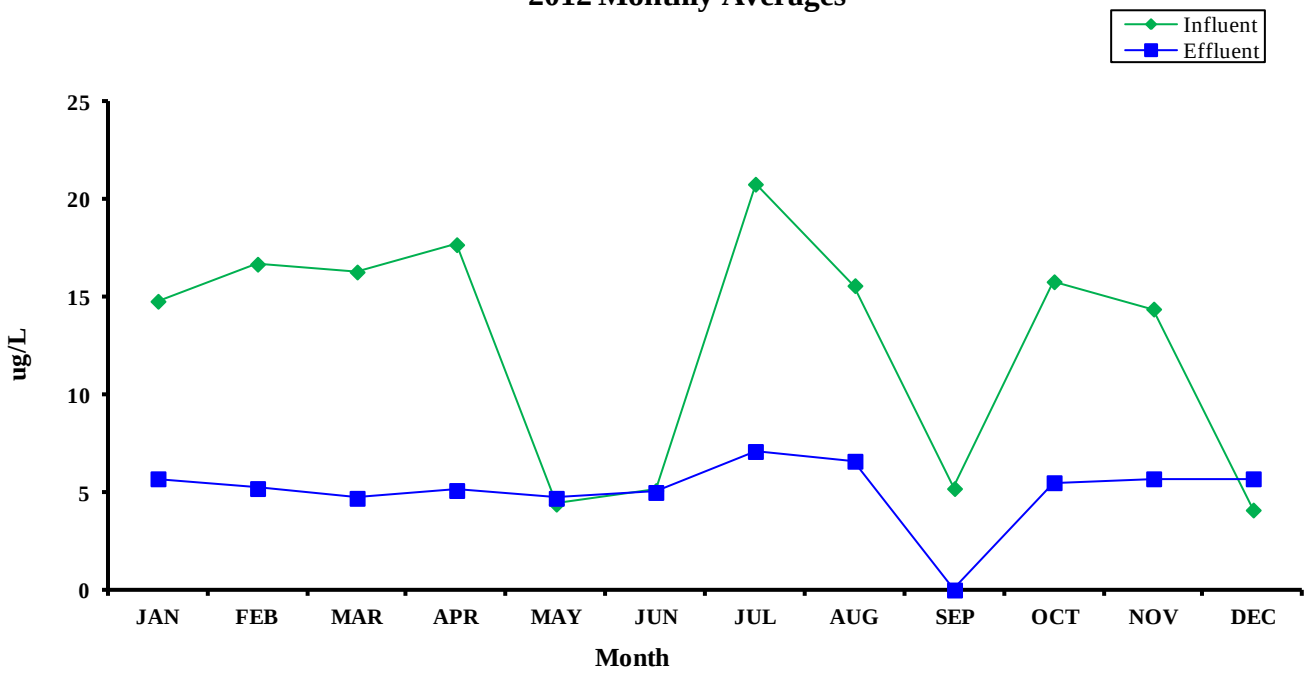
Phenols
2012 Monthly Averages



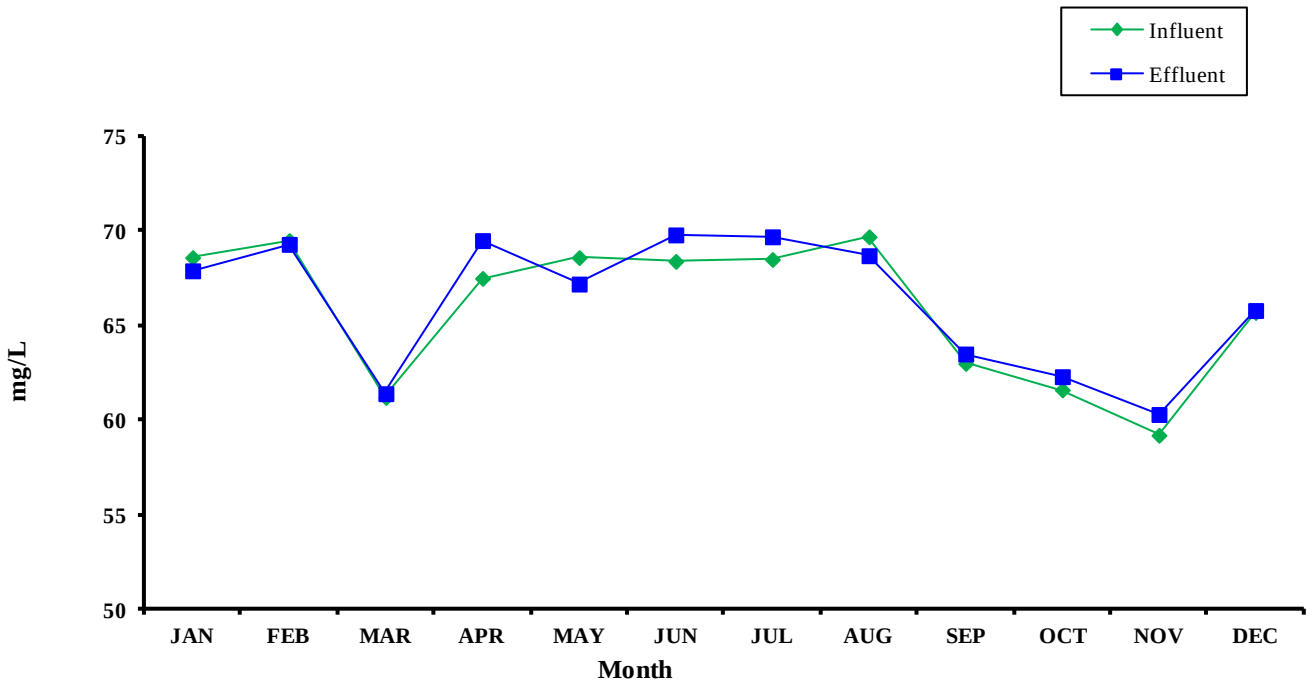
Total Chlorinated Hydrocarbons
2012 Monthly Averages



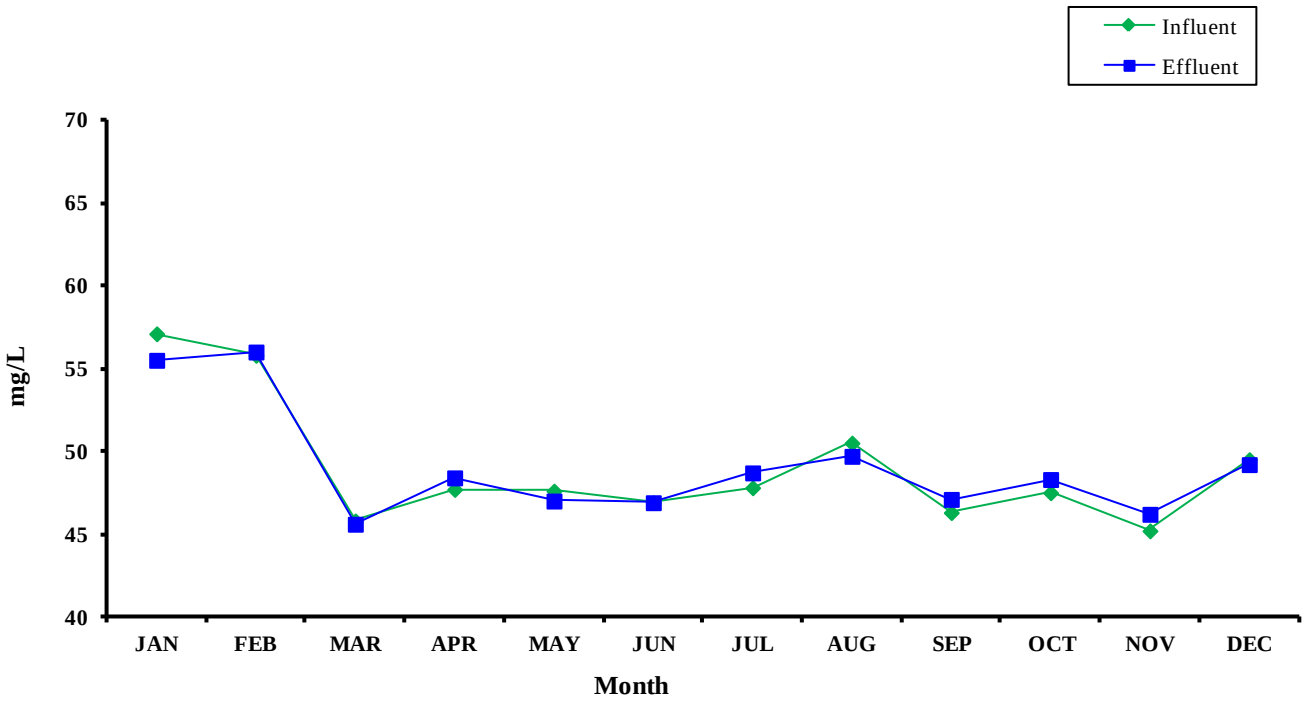
Base Neutrals
2012 Monthly Averages



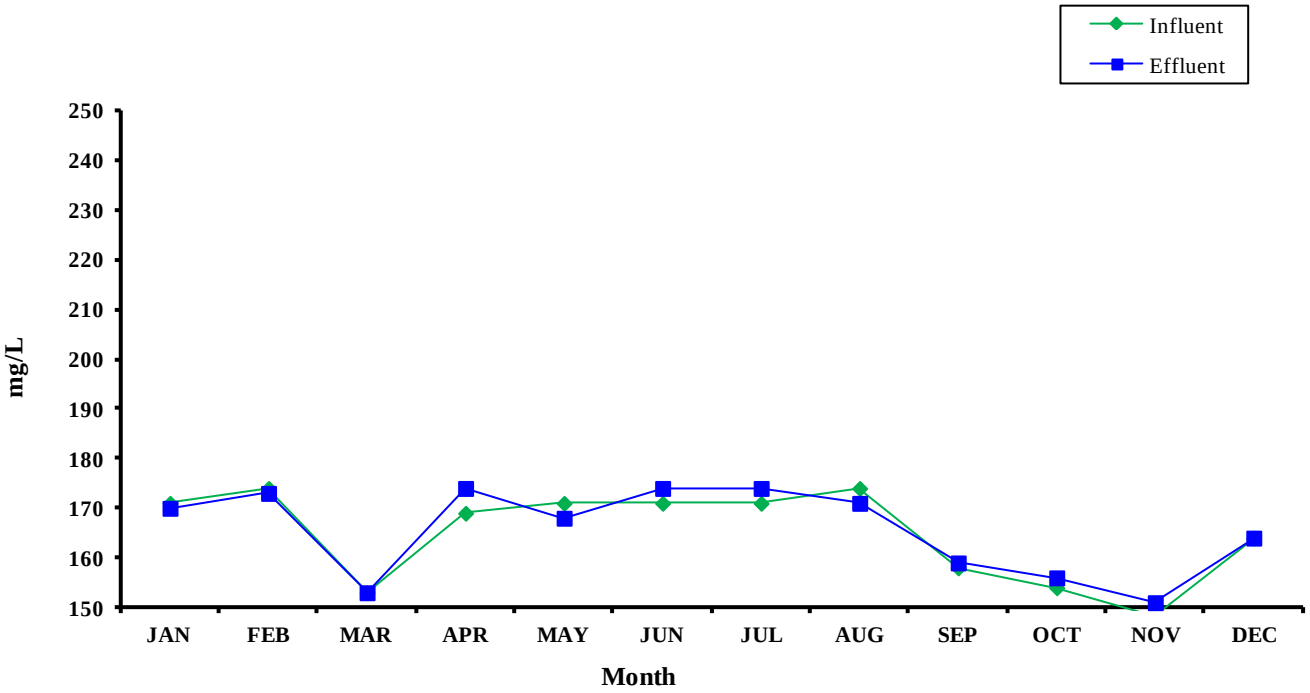
Calcium
2012 Monthly Averages



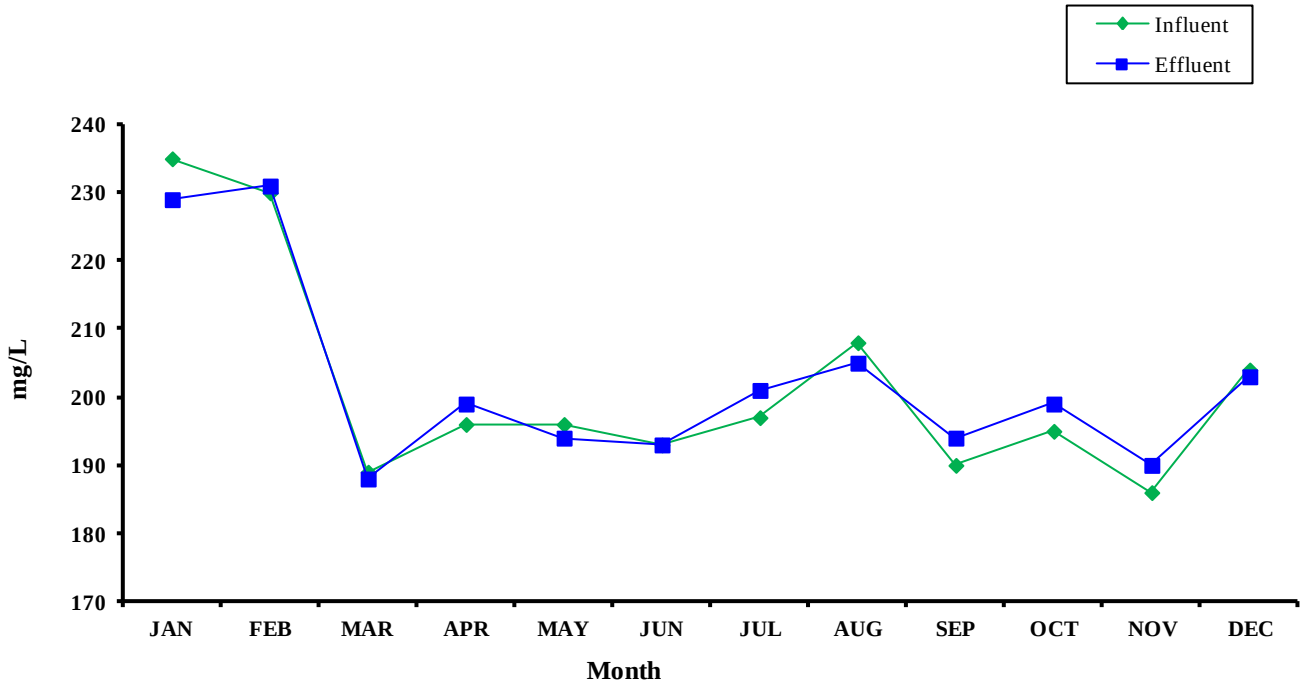
Magnesium
2012 Monthly Averages



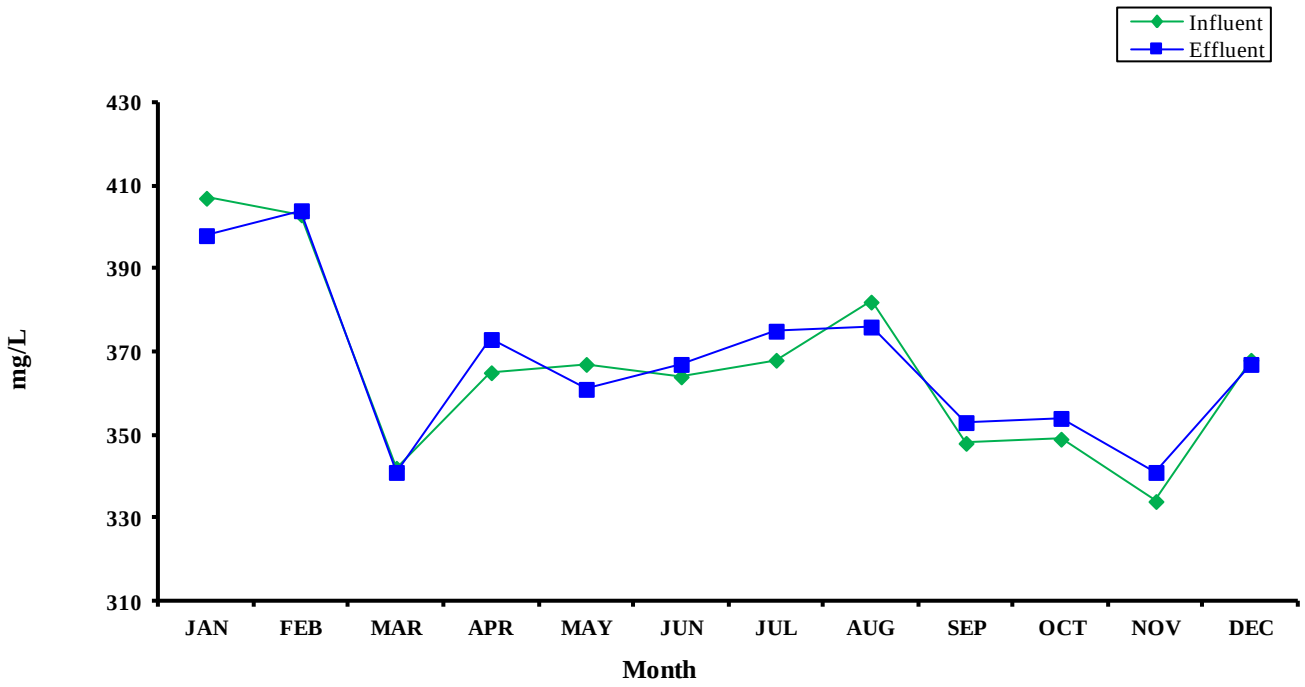
Calcium Hardness
2012 Monthly Averages



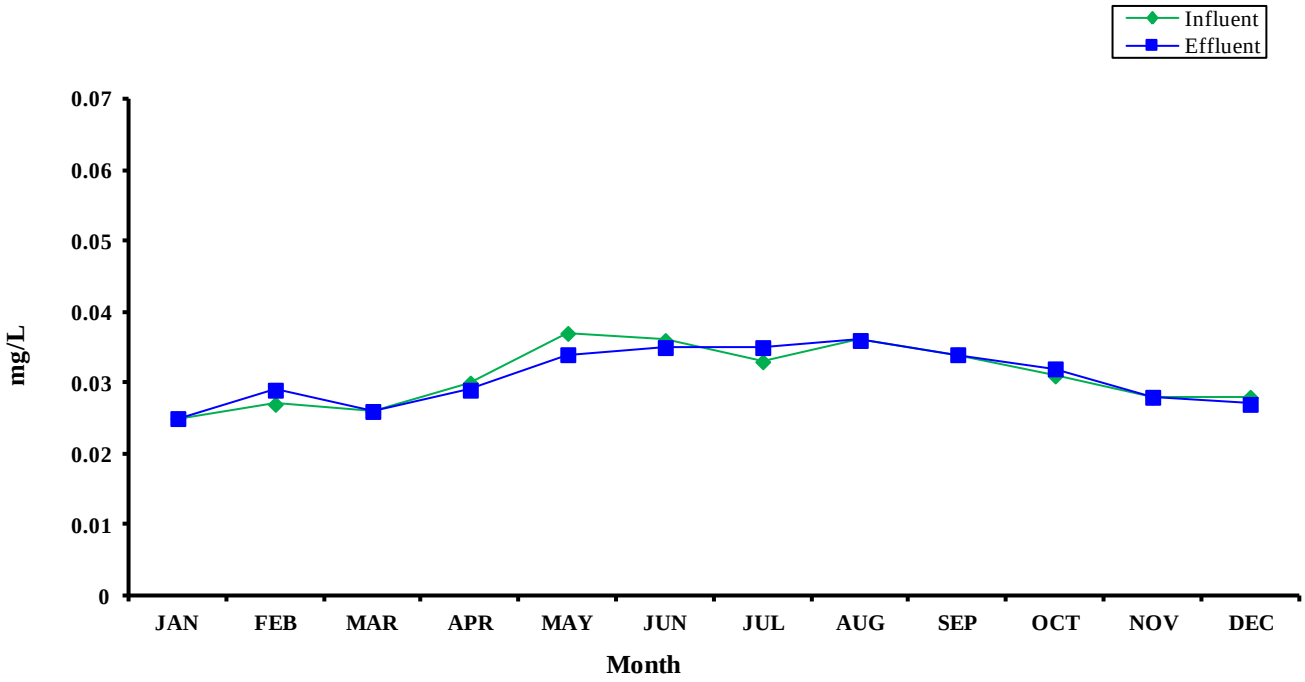
Magnesium Hardness
2012 Monthly Averages



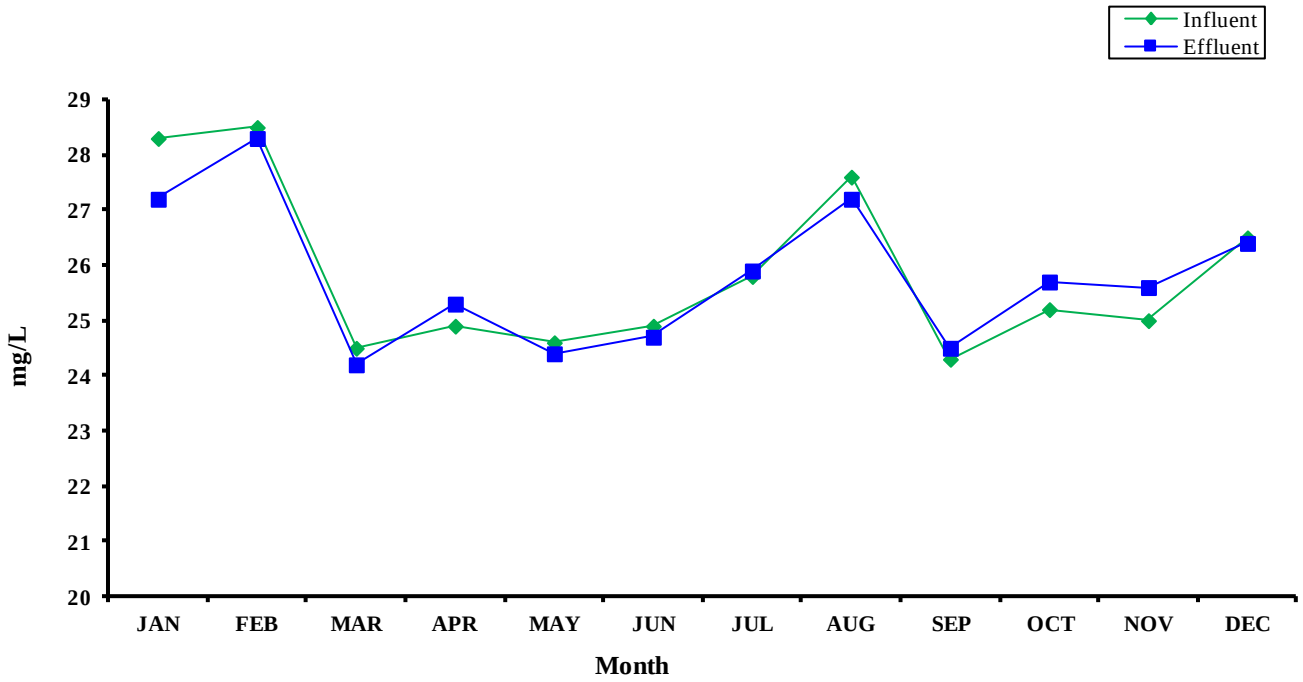
Total Hardness
2012 Monthly Averages



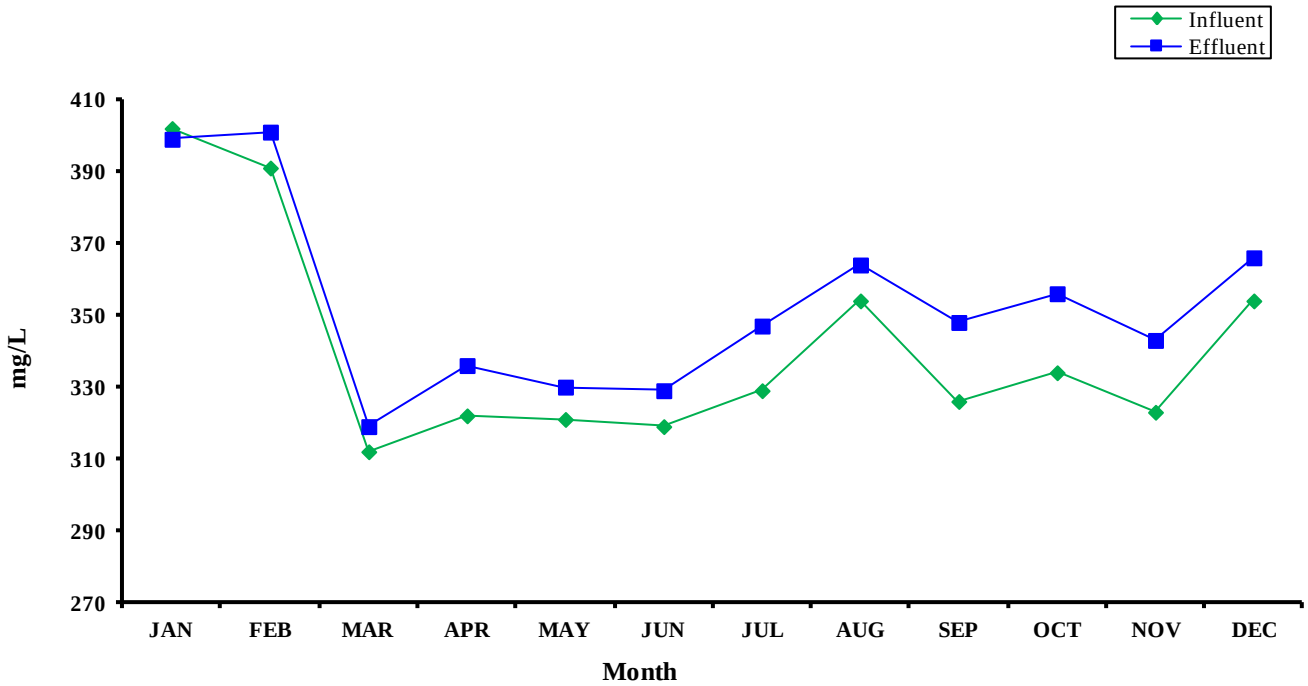
Lithium
2012 Monthly Averages



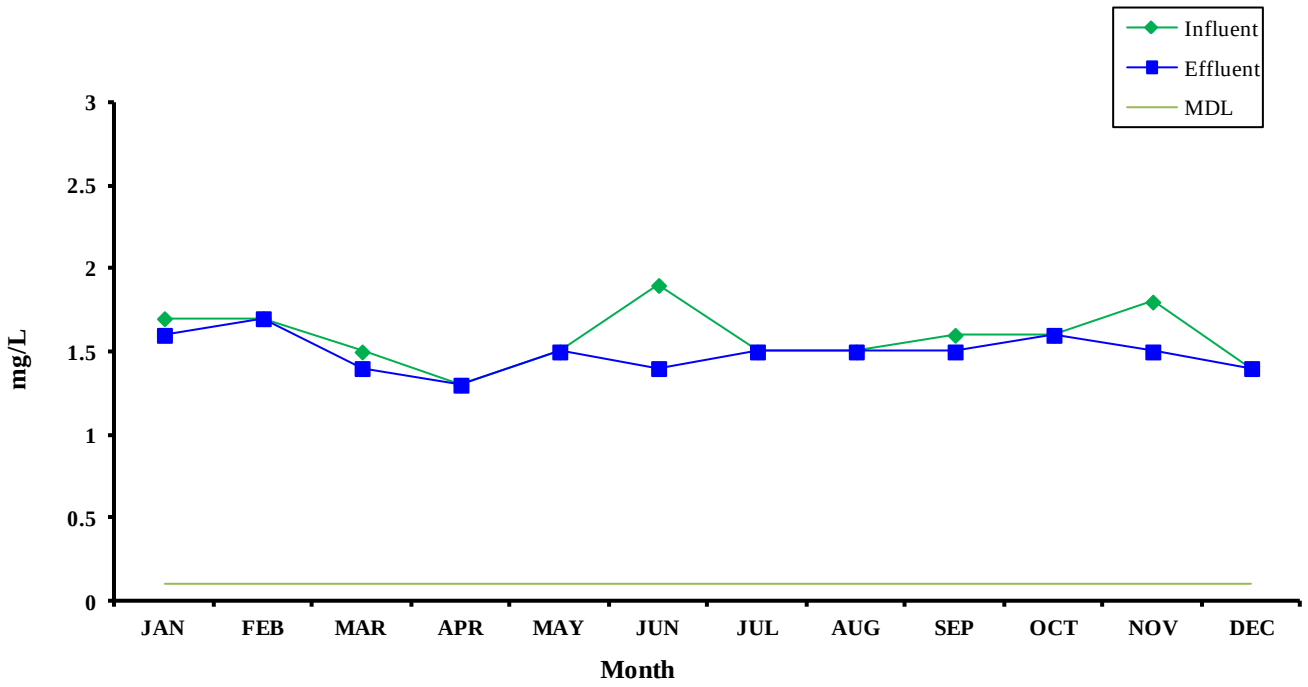
Potassium
2012 Monthly Averages



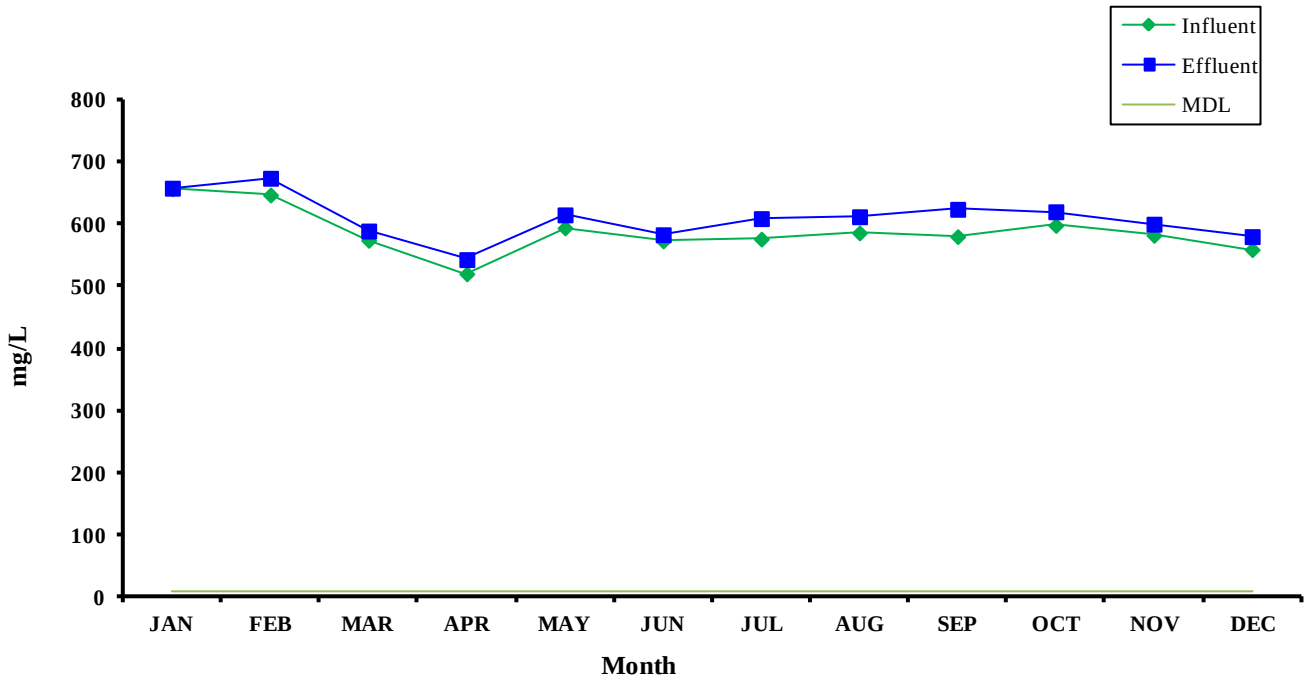
Sodium
2012 Monthly Averages



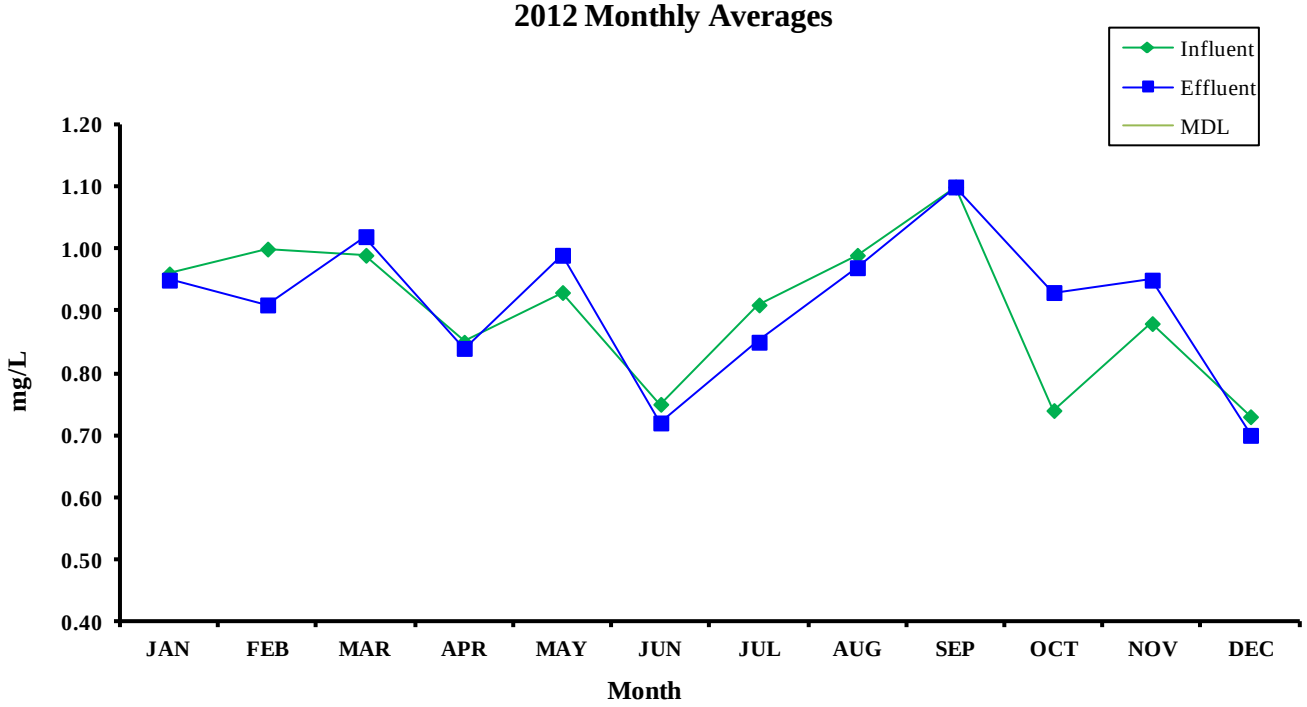
Bromide
2012 Monthly Averages



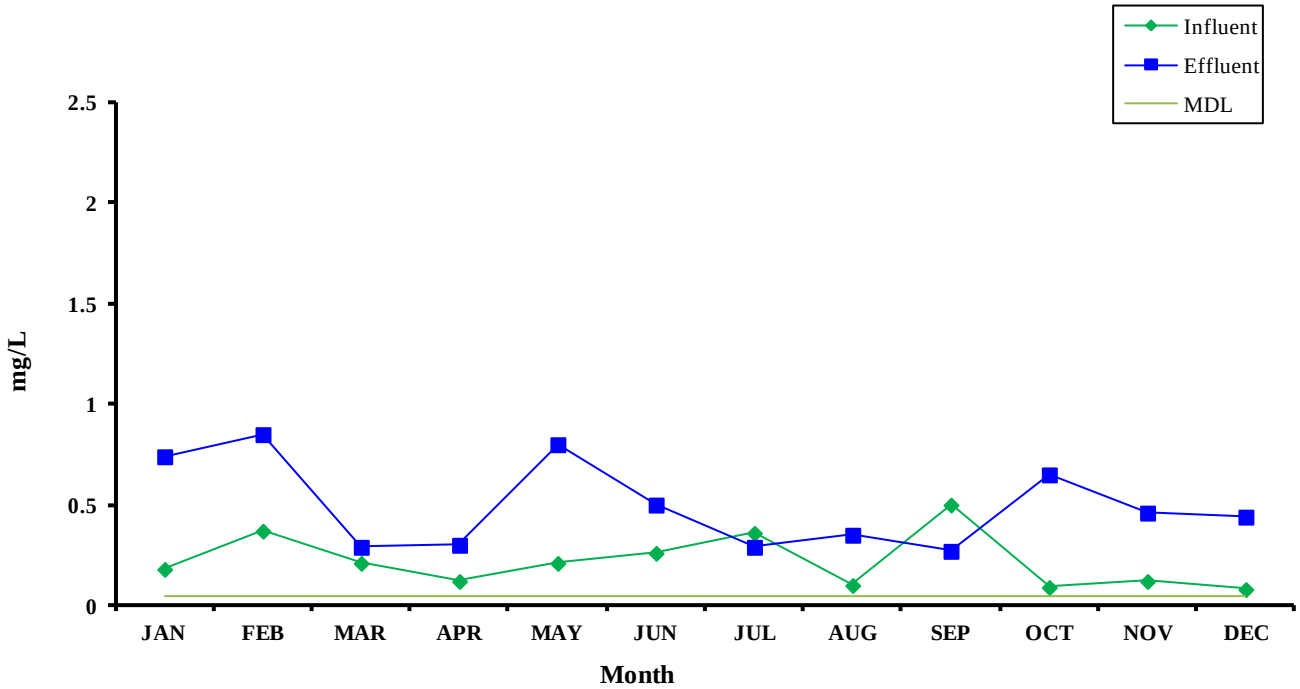
Chloride
2012 Monthly Averages



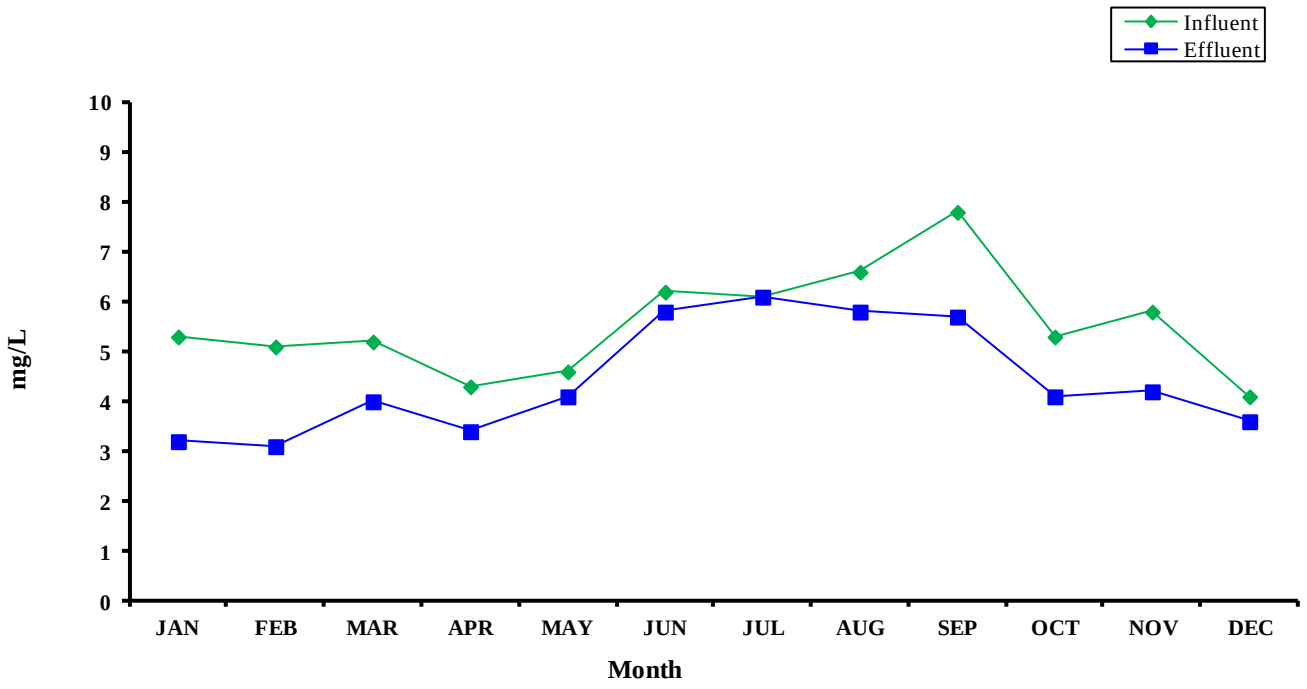
Fluoride
2012 Monthly Averages



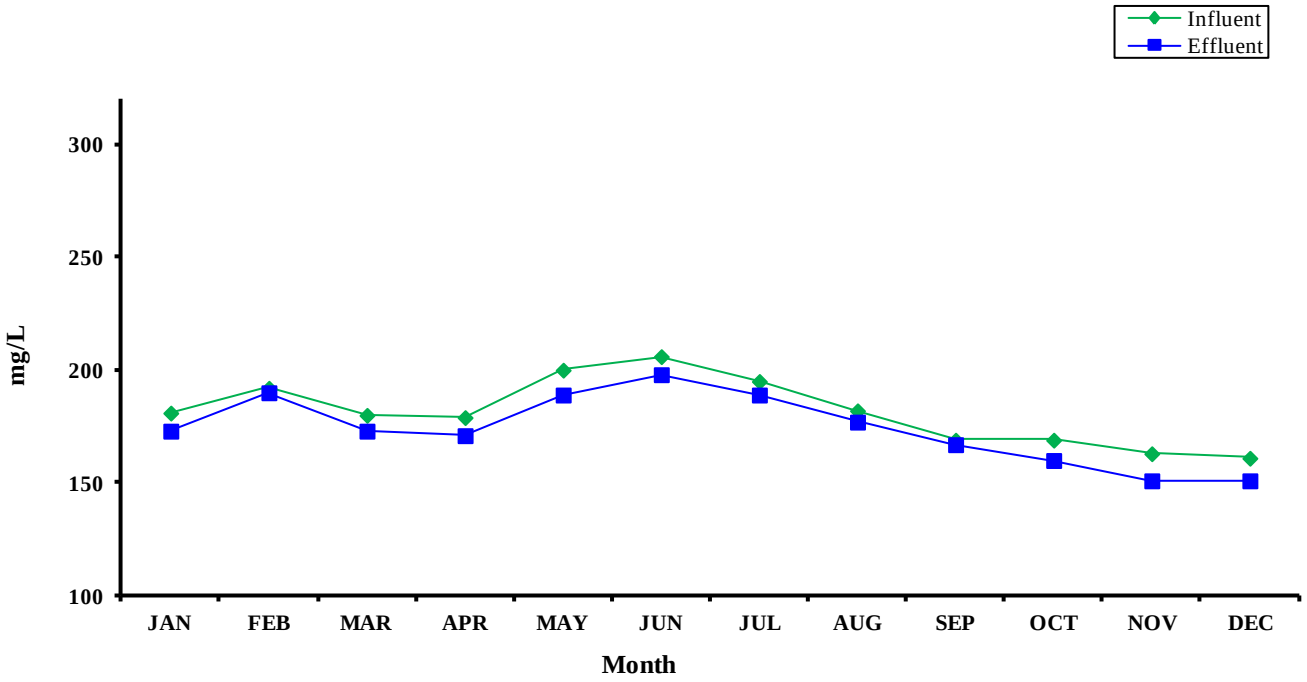
Nitrate
2012 Monthly Averages



O-Phosphate
2012 Monthly Averages



Sulfate
2012 Monthly Averages



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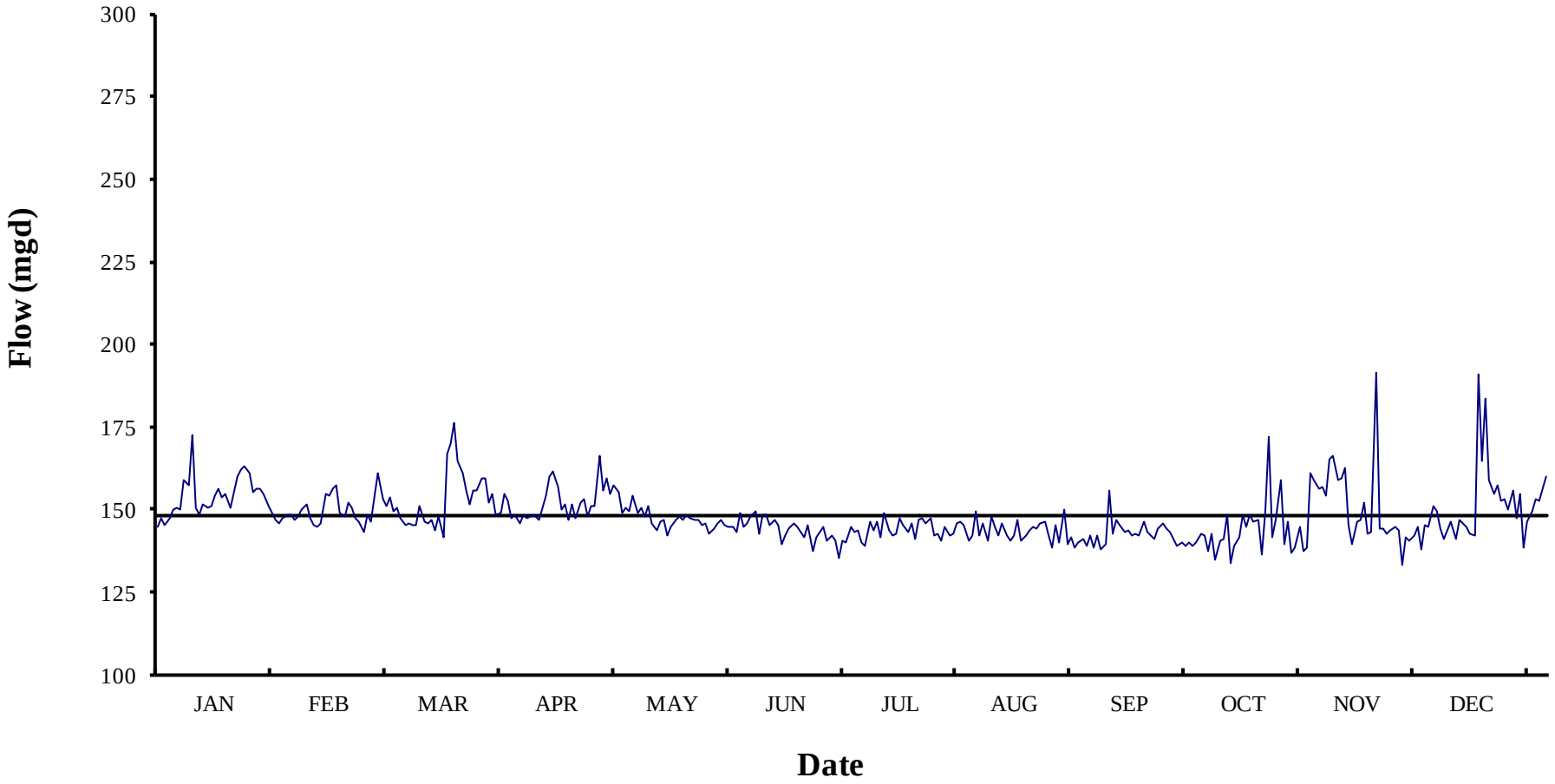
E. Daily Values of Selected Parameters

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.

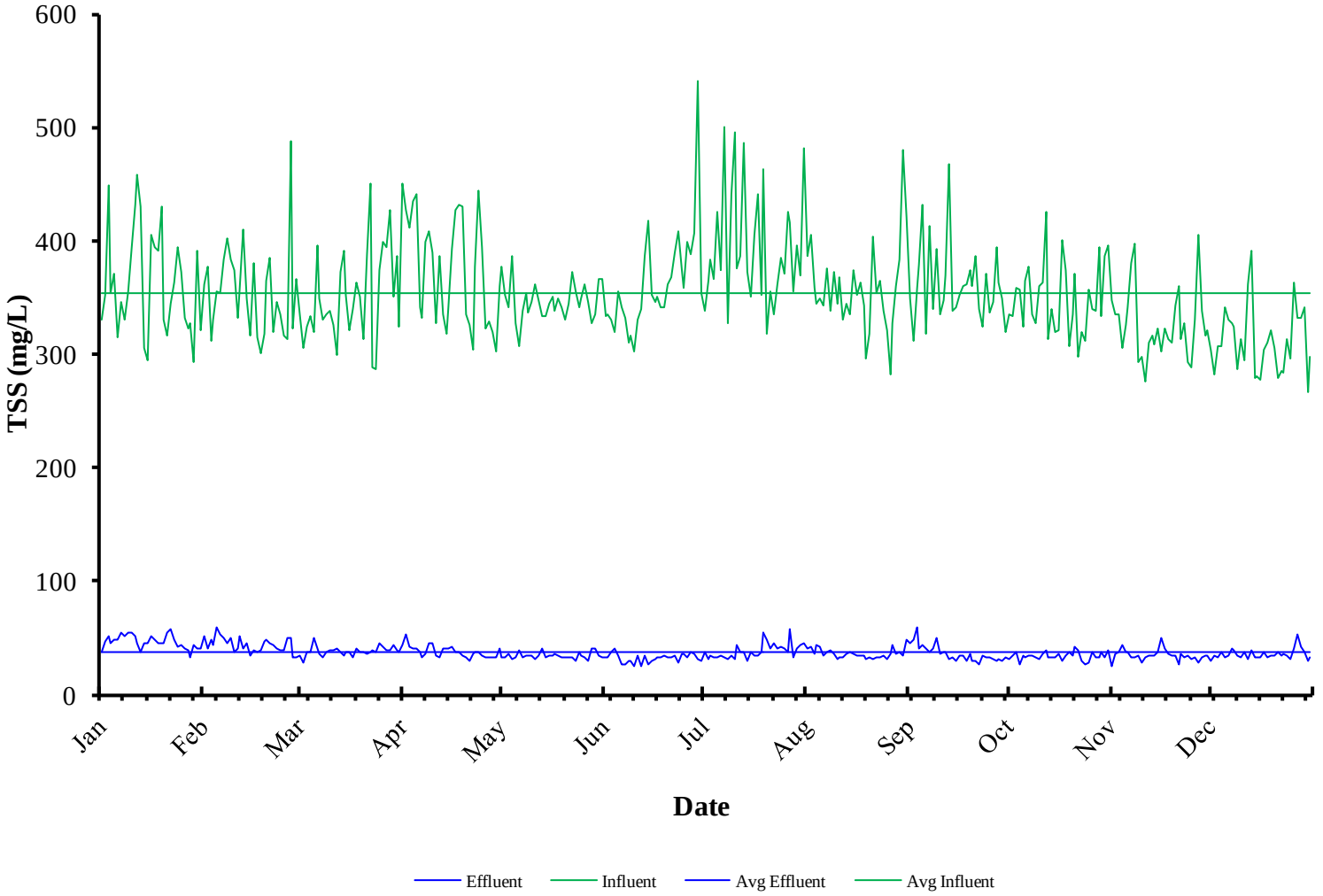
Point Loma Wastewater Treatment Plant
2012 Daily Flows (mgd)



Point Loma Wastewater Treatment Plant
2012 Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	144.8	146.8	150.8	154.7	155.2	143.3	144.6	140.6	139.2	142.4	156.1	151.1	
2	147.4	145.9	153.7	152.6	149.1	148.7	143.3	142.3	142.0	142.2	156.8	149.6	
3	145.2	147.4	149.5	147.3	150.3	144.7	143.6	149.3	138.7	137.5	154.1	144.1	
4	147.4	148.3	150.4	148.2	149.2	145.9	140.1	142.0	141.9	142.6	165.1	141.3	
5	150.0	148.3	147.2	146.0	154.2	147.7	139.0	145.8	137.8	134.7	166.1	143.7	
6	150.4	146.7	145.3	148.4	149.1	149.3	146.2	140.6	139.5	140.7	158.7	146.6	
7	149.9	147.7	145.6	147.2	150.4	142.9	143.7	147.8	155.7	140.8	159.3	141.2	
8	158.7	150.1	145.5	148.0	148.0	148.7	146.1	144.6	142.5	148.6	162.5	147.1	
9	157.1	151.6	145.5	148.3	151.2	148.2	141.6	142.1	146.7	133.9	145.3	145.6	
10	172.7	147.5	151.2	146.7	146.0	145.4	148.9	145.7	145.3	139.1	139.6	145.0	
11	150.8	145.1	146.4	150.3	143.7	146.6	143.8	141.9	143.4	141.5	146.1	142.9	
12	148.4	144.6	145.9	154.1	146.4	145.3	142.3	140.6	143.5	148.6	147.1	141.9	
13	151.7	145.9	146.8	160.1	146.8	139.5	142.8	142.2	142.2	145.0	152.1	190.7	
14	150.8	154.8	143.9	161.4	142.3	142.2	147.3	146.7	142.4	148.3	142.8	164.5	
15	150.9	154.5	147.9	157.0	144.8	144.3	145.1	140.3	142.3	146.1	143.4	183.7	
16	154.4	156.1	141.5	150.0	146.9	145.9	143.3	142.2	146.3	147.0	191.5	159.2	
17	156.3	157.2	167.0	151.5	148.0	144.5	146.0	143.8	143.1	136.6	144.1	154.6	
18	153.4	148.9	170.2	147.1	146.9	143.0	140.9	144.7	142.4	149.5	144.1	157.2	
19	155.0	147.8	176.0	151.4	148.5	141.6	146.8	144.1	141.0	172.0	142.6	152.5	
20	150.6	151.9	164.6	147.2	147.5	145.2	147.2	145.8	144.1	141.5	143.6	153.2	
21	155.4	150.8	161.3	152.1	146.7	137.6	145.9	146.6	146.0	146.6	144.6	149.8	
22	159.9	147.4	156.0	153.2	147.0	141.7	147.5	142.2	144.0	158.8	143.6	155.6	
23	162.3	146.2	151.6	148.0	145.5	143.3	142.1	138.6	143.4	139.5	133.2	147.6	
24	162.9	143.3	155.5	150.8	146.0	144.7	142.5	145.4	141.0	146.3	141.5	154.6	
25	161.0	148.2	155.6	151.0	142.8	140.6	140.3	139.8	139.0	136.8	140.6	138.6	
26	155.0	146.4	159.3	166.3	144.2	141.9	144.5	149.9	139.9	138.2	142.1	146.6	
27	156.4	153.5	159.6	155.6	145.6	140.5	142.3	139.7	139.0	144.9	144.6	149.6	
28	156.1	160.9	152.2	159.6	146.6	135.2	142.5	141.4	140.2	137.5	137.9	153.1	
29	154.9	153.4	154.6	154.9	145.3	140.8	146.1	138.2	138.9	138.6	145.1	152.6	
30	151.0		148.6	157.1	144.6	139.9	146.4	140.1	139.9	161.1	144.9	156.1	Annual
31	149.2		149.0		144.7		145.3	141.0		159.1		160.1	Summary
Average	153.9	149.6	152.8	152.2	147.2	143.6	144.1	143.1	142.4	144.7	149.3	152.2	147.9
Minimum	144.8	143.3	141.5	146.0	142.3	135.2	139.0	138.2	137.8	133.9	133.2	138.6	133
Maximum	172.7	160.9	176.0	166.3	155.2	149.3	148.9	149.9	155.7	172.0	191.5	190.7	191
Total	4769.8	4337.1	4738.0	4565.9	4563.2	4308.7	4468.1	4436.0	4271.1	4485.7	4478.5	4719.5	54141

Point Loma Wastewater Treatment Plant
2012 Total Suspended Solids



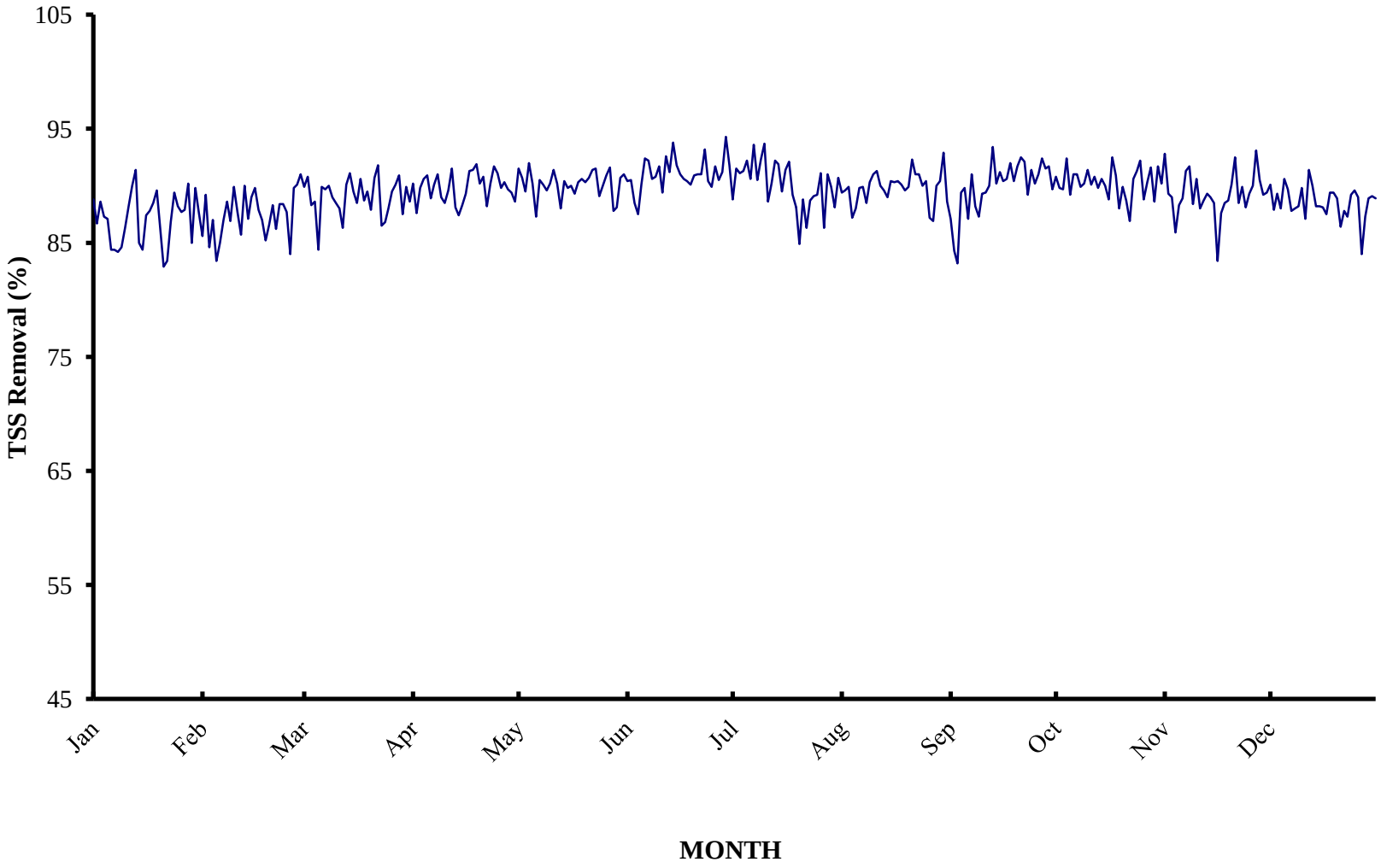
Point Loma Wastewater Treatment Plant

2012 Total Suspended Solids (mg/L)

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
Day	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	331	37	362	52	336	34	450	44	377	32	334	32	339	38	386	41	349	45	336	31	348	25	304	30
2	353	47	378	41	305	28	427	53	353	33	336	32	365	31	405	42	312	49	333	34	336	36	282	34
3	449	51	312	48	325	38	412	42	342	36	330	38	384	34	358	36	358	60	358	37	336	37	307	33
4	354	45	330	43	333	38	435	41	387	31	320	40	367	32	345	44	379	40	357	27	306	43	308	37
5	371	48	356	59	320	50	441	40	328	32	355	35	425	33	349	42	432	44	325	35	326	38	341	32
6	315	49	354	53	396	40	342	38	308	39	342	26	374	35	343	35	318	41	365	33	341	38	331	34
7	346	54	384	50	349	36	332	33	338	32	332	26	500	32	376	38	413	37	378	34	380	33	327	40
8	330	52	403	46	330	33	400	36	354	35	310	29	327	31	338	39	340	40	336	34	397	33	325	39
9	356	55	383	50	335	37	409	45	337	35	316	29	442	34	372	36	393	50	327	32	293	34	287	34
10	395	54	375	38	338	39	390	45	346	34	302	25	496	31	344	31	336	36	361	31	298	28	314	32
11	432	51	332	41	326	39	328	34	362	31	330	35	376	43	368	32	348	37	364	36	276	33	295	38
12	459	46	357	51	300	41	387	33	348	34	340	25	386	38	330	33	370	37	425	39	310	35	362	31
13	430	37	410	41	372	37	336	40	333	40	386	34	487	38	345	36	468	31	314	32	317	34	391	39
14	306	46	350	45	392	35	318	40	333	32	418	26	372	30	336	37	338	33	340	32	309	34	279	33
15	294	46	317	35	352	37	342	40	344	35	353	29	351	37	374	36	342	30	319	32	323	37	280	33
16	406	51	381	39	321	37	393	42	351	35	346	31	406	35	352	34	353	34	321	36	302	50	278	33
17	395	48	315	38	340	32	427	37	338	36	351	33	441	35	363	35	360	34	401	30	323	40	304	38
18	391	45	301	39	364	41	432	37	350	34	342	33	352	38	343	34	362	29	375	34	314	36	310	33
19	431	45	318	47	351	37	431	35	341	32	342	34	463	55	297	31	375	36	308	37	311	35	322	34
20	330	45	365	49	313	38	336	33	330	32	362	33	318	48	318	32	360	30	335	34	343	34	306	34
21	316	54	385	45	388	36	326	30	345	32	368	33	356	40	404	31	386	29	371	42	361	27	279	38
22	344	57	320	44	450	37	304	36	372	32	390	35	336	46	354	32	340	27	298	39	313	36	286	35
23	364	48	346	40	289	39	378	37	355	30	409	28	362	41	365	33	324	35	319	30	327	33	284	36
24	395	42	336	39	287	38	445	37	341	37	375	36	385	42	339	34	371	32	312	27	293	35	314	34
25	372	44	317	39	374	45	395	35	350	35	358	36	371	40	322	31	337	33	357	28	289	31	297	31
26	332	41	313	50	400	42	323	33	362	33	400	33	425	38	282	36	346	31	340	38	331	33	364	40
27	323	39	488	50	394	39	329	32	346	29	388	37	416	57	327	43	394	30	339	33	406	28	332	53
28	327	32	323	32	427	39	320	33	327	40	407	36	355	32	360	36	364	31	394	33	338	32	332	42
29	293	44	366	33	351	44	303	32	335	40	541	31	396	40	384	37	349	29	334	38	316	34	341	38
30	391	40			386	39	360	41	367	34	354	29	370	44	481	34	319	33	386	32	322	34	267	29
31	322	40			325	37			366	33			482	45	421	48			396	39			298	33
Avg	363	46	354	44	351	38	375	38	347	34	361	32	394	38	357	36	361	36	349	34	326	35	311	35
Min	293	32	301	32	287	28	303	30	308	29	302	25	318	30	282	31	312	27	298	27	276	25	267	29
Max	459	57	488	59	450	50	450	53	387	40	541	40	500	57	481	48	468	60	425	42	406	50	391	53

Summary	
Inf	Eff
354	37
267	25
541	60

Point Loma Wastewater Treatment Plant
2012 TSS Removal (%) at Point Loma

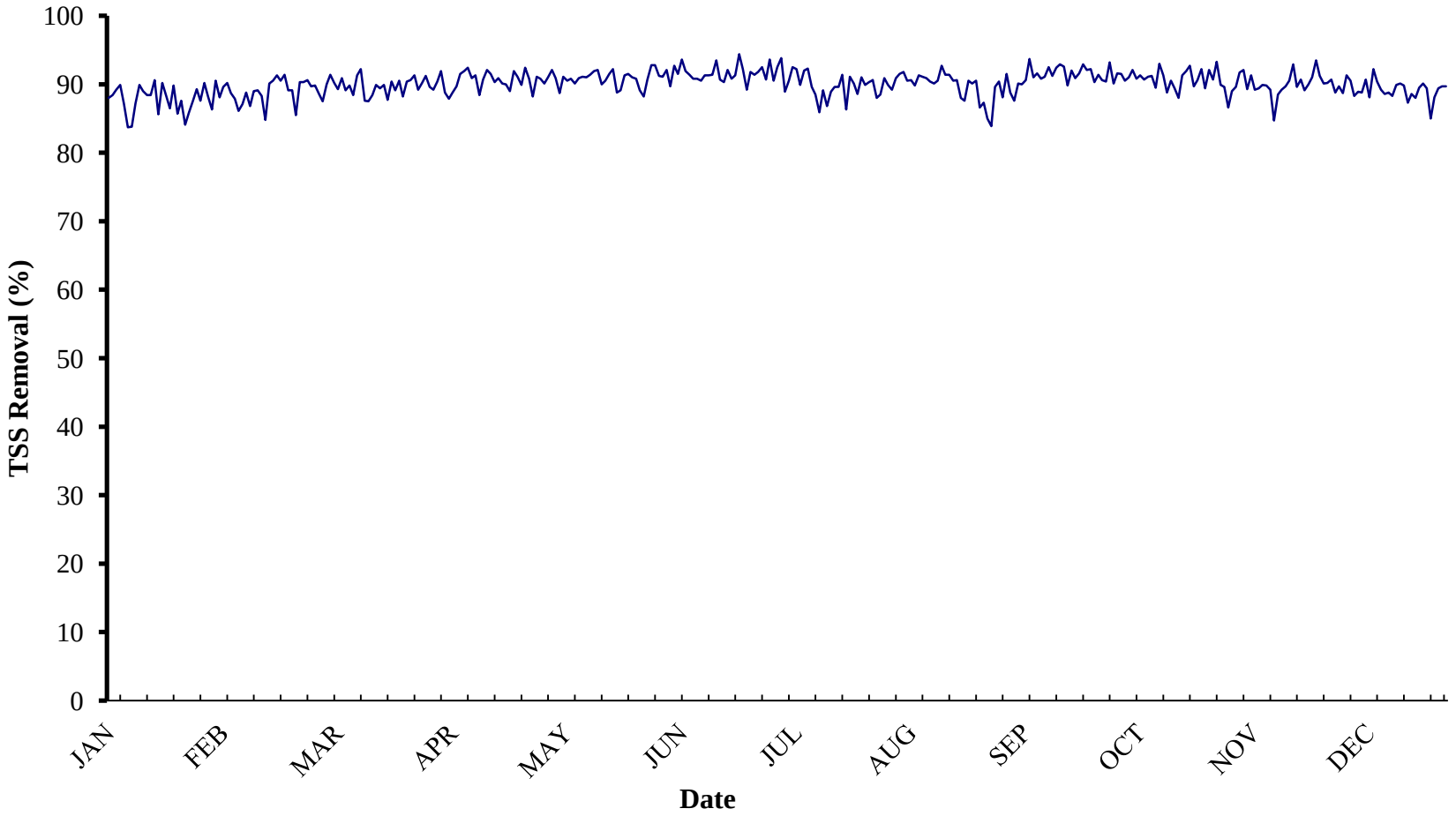


Point Loma Wastewater Treatment Plant

2012 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	88.8	85.6	89.9	90.2	91.5	90.4	88.8	89.4	87.1	90.8	92.8	90.1	
2	86.7	89.2	90.8	87.6	90.7	90.5	91.5	89.6	84.3	89.8	89.3	87.9	
3	88.6	84.6	88.3	89.8	89.5	88.5	91.1	89.9	83.2	89.7	89.0	89.3	
4	87.3	87.0	88.6	90.6	92.0	87.5	91.3	87.2	89.4	92.4	85.9	88.0	
5	87.1	83.4	84.4	90.9	90.2	90.1	92.2	88.0	89.8	89.2	88.3	90.6	
6	84.4	85.0	89.9	88.9	87.3	92.4	90.6	89.8	87.1	91.0	88.9	89.7	
7	84.4	87.0	89.7	90.1	90.5	92.2	93.6	89.9	91.0	91.0	91.3	87.8	
8	84.2	88.6	90.0	91.0	90.1	90.6	90.5	88.5	88.2	89.9	91.7	88.0	
9	84.6	86.9	89.0	89.0	89.6	90.8	92.3	90.3	87.3	90.2	88.4	88.2	
10	86.3	89.9	88.5	88.5	90.2	91.7	93.7	91.0	89.3	91.4	90.6	89.8	
11	88.2	87.7	88.0	89.6	91.4	89.4	88.6	91.3	89.4	90.1	88.0	87.1	
12	90.0	85.7	86.3	91.5	90.2	92.6	90.2	90.0	90.0	90.8	88.7	91.4	
13	91.4	90.0	90.1	88.1	88.0	91.2	92.2	89.6	93.4	89.8	89.3	90.0	
14	85.0	87.1	91.1	87.4	90.4	93.8	91.9	89.0	90.2	90.6	89.0	88.2	
15	84.4	89.0	89.5	88.3	89.8	91.8	89.5	90.4	91.2	90.0	88.5	88.2	
16	87.4	89.8	88.5	89.3	90.0	91.0	91.4	90.3	90.4	88.8	83.4	88.1	
17	87.8	87.9	90.6	91.3	89.3	90.6	92.1	90.4	90.6	92.5	87.6	87.5	
18	88.5	87.0	88.7	91.4	90.3	90.4	89.2	90.1	92.0	90.9	88.5	89.4	
19	89.6	85.2	89.5	91.9	90.6	90.1	88.1	89.6	90.4	88.0	88.7	89.4	
20	86.4	86.6	87.9	90.2	90.3	90.9	84.9	89.9	91.7	89.9	90.1	88.9	
21	82.9	88.3	90.7	90.8	90.7	91.0	88.8	92.3	92.5	88.7	92.5	86.4	
22	83.4	86.2	91.8	88.2	91.4	91.0	86.3	91.0	92.1	86.9	88.5	87.8	
23	86.8	88.4	86.5	90.2	91.5	93.2	88.7	91.0	89.2	90.6	89.9	87.3	
24	89.4	88.4	86.8	91.7	89.1	90.4	89.1	90.0	91.4	91.3	88.1	89.2	
25	88.2	87.7	88.0	91.1	90.0	89.9	89.2	90.4	90.2	92.2	89.3	89.6	
26	87.7	84.0	89.5	89.8	90.9	91.7	91.1	87.2	91.0	88.8	90.0	89.0	
27	87.9	89.8	90.1	90.3	91.6	90.5	86.3	86.9	92.4	90.3	93.1	84.0	
28	90.2	90.1	90.9	89.7	87.8	91.2	91.0	90.0	91.5	91.6	90.5	87.3	
29	85.0	91.0	87.5	89.4	88.1	94.3	89.9	90.4	91.7	88.6	89.2	88.9	
30	89.8		89.9	88.6	90.7	91.8	88.1	92.9	89.7	91.7	89.4	89.1	Annual
31	87.6		88.6		91.0		90.7	88.6		90.2		88.9	Summary
Avg	87.1	87.5	89.0	89.8	90.2	91.1	90.1	89.8	89.9	90.2	89.3	88.6	89.4
Min	82.9	83.4	84.4	87.4	87.3	87.5	84.9	86.9	83.2	86.9	83.4	84.0	82.9
Max	91.4	91.0	91.8	91.9	92.0	94.3	93.7	92.9	93.4	92.5	93.1	91.4	94.3

Point Loma Wastewater Treatment Plant
2012 TSS Removal (%) Systemwide

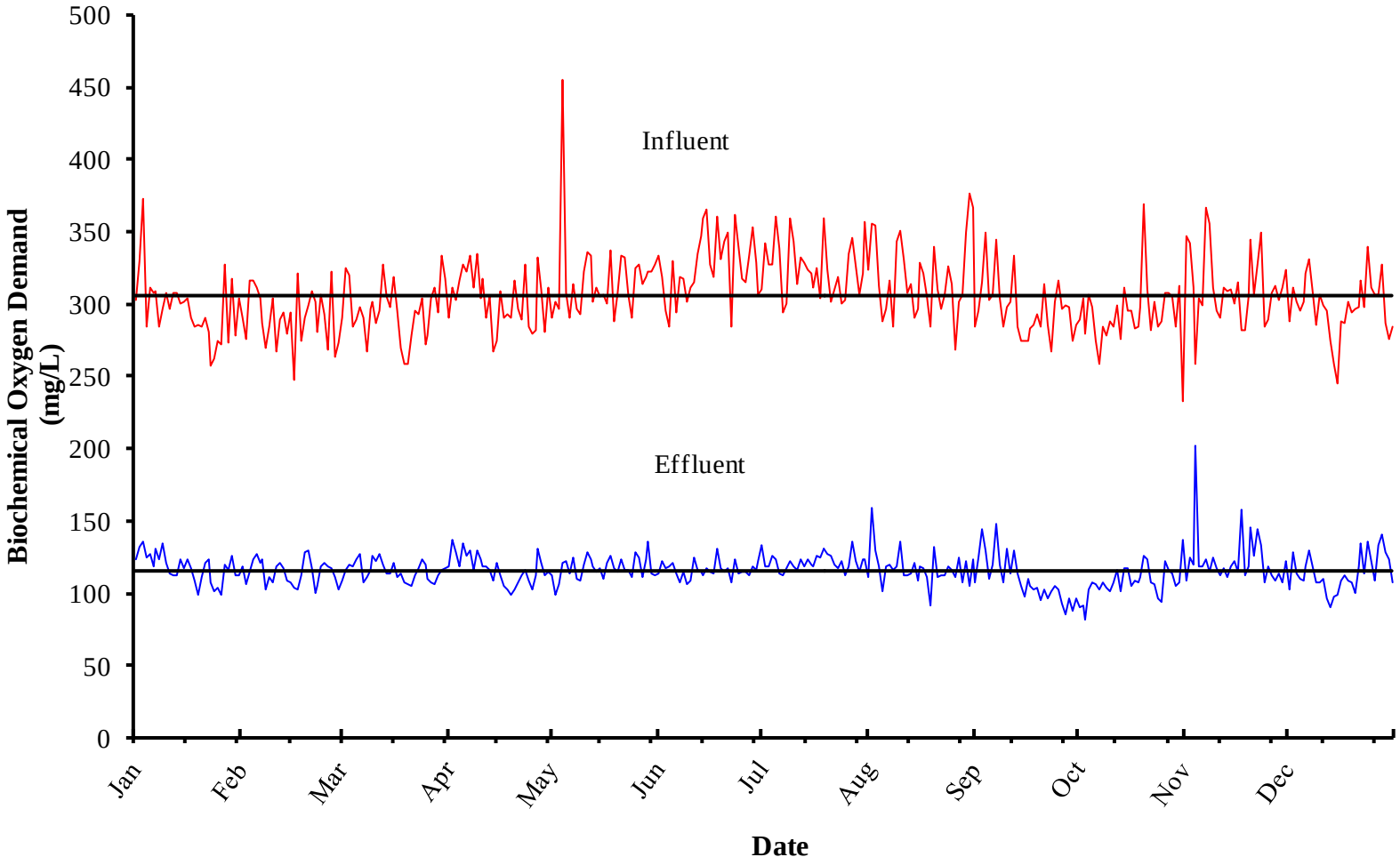


Point Loma Wastewater Treatment Plant

2012 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	89.4	86.5	90.5	90.5	91.9	91.0	89.2	89.9	87.3	91.4	93.3	90.7	
2	87.6	89.8	91.4	88.2	91.1	90.8	91.8	90.3	85.0	90.6	89.9	88.8	
3	89.1	85.7	89.1	90.4	89.9	89.1	91.4	90.6	83.9	90.4	89.6	89.7	
4	88.1	87.6	89.1	90.6	92.4	88.2	91.8	88.0	89.6	93.2	86.6	88.7	
5	87.7	84.1	85.5	91.3	90.8	90.7	92.5	88.5	90.4	90.1	89.0	91.3	
6	85.2	85.8	90.3	89.2	88.2	92.8	90.7	90.9	88.1	91.6	89.6	90.5	
7	85.4	87.5	90.3	90.2	91.1	92.8	93.6	89.9	91.5	91.5	91.7	88.3	
8	85.2	89.3	90.6	91.2	90.8	91.2	90.5	89.2	88.8	90.5	92.1	88.9	
9	85.5	87.6	89.7	89.6	90.1	91.1	92.5	90.9	87.6	91.0	89.3	88.8	
10	87.0	90.2	89.8	89.2	91.0	92.1	93.8	91.5	90.1	92.1	91.3	90.7	
11	88.8	88.2	88.6	90.4	92.1	89.7	88.9	91.8	90.0	90.8	89.2	88.1	
12	90.5	86.3	87.5	91.9	90.9	92.7	90.5	90.5	90.6	91.3	89.4	92.2	
13	91.8	90.5	90.0	88.8	88.7	91.5	92.5	90.6	93.7	90.7	89.9	90.4	
14	85.9	88.1	91.4	87.9	91.1	93.6	92.2	89.8	91.0	91.1	89.8	89.2	
15	85.3	89.6	90.2	88.8	90.5	91.9	89.9	91.3	91.6	91.2	89.2	88.6	
16	88.0	90.2	89.3	89.7	90.8	91.4	92.0	91.1	90.8	89.5	84.7	88.8	
17	88.4	88.7	90.9	91.5	90.1	90.8	92.3	90.9	91.1	93.0	88.5	88.3	
18	89.2	87.9	89.1	91.9	90.9	90.8	89.6	90.4	92.5	91.3	89.2	89.9	
19	89.9	86.1	89.8	92.4	91.1	90.5	88.5	90.1	91.2	88.8	89.7	90.1	
20	87.2	87.1	88.4	90.9	91.0	91.3	85.9	90.5	92.4	90.5	90.5	89.8	
21	83.7	88.8	91.3	91.3	91.4	91.3	89.1	92.7	92.9	89.4	92.9	87.3	
22	83.8	86.8	92.2	88.4	91.9	91.4	86.8	91.4	92.6	88.0	89.6	88.6	
23	87.2	89.0	87.6	90.7	92.1	93.5	88.9	91.4	89.8	91.3	90.7	88.0	
24	89.9	89.1	87.5	92.1	90.0	90.7	89.6	90.5	92.0	91.9	89.1	89.5	
25	89.0	88.3	88.4	91.5	90.5	90.3	89.6	90.6	90.9	92.7	90.0	90.1	
26	88.4	84.8	89.9	90.3	91.5	92.1	91.4	88.0	91.6	89.7	91.0	89.4	
27	88.4	90.1	89.4	90.9	92.2	90.8	86.3	87.6	92.9	90.6	93.5	85.0	
28	90.6	90.5	89.9	90.1	88.8	91.3	91.1	90.5	92.1	92.2	91.2	88.1	
29	85.6	91.3	87.7	90.0	89.1	94.4	90.1	90.1	92.2	89.4	90.1	89.4	
30	90.2		90.4	89.0	91.3	92.2	88.6	90.5	90.3	92.1	90.2	89.7	Annual
31	88.4		89.1		91.5		91.0	86.6		90.7		89.7	Summary
Avg	87.8	88.1	89.5	90.3	90.8	91.4	90.4	90.2	90.5	90.9	90.0	89.2	89.9
Min	83.7	84.1	85.5	87.9	88.2	88.2	85.9	86.6	83.9	88.0	84.7	85.0	83.7
Max	91.8	91.3	92.2	92.4	92.4	94.4	93.8	92.7	93.7	93.2	93.5	92.2	94.4

Point Loma Wastewater Treatment Plant
2012 Biochemical Oxygen Demand



Point Loma Wastewater Treatment Plant

2012 Biochemical Oxygen Demand (mg/L)

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
Day	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	303	123	291	119	291	109	290	119	291	112	334	114	310	133	324	111	285	108	289	90	347	109	288	102
2	330	132	276	106	325	116	311	137	302	99	319	122	342	118	356	159	296	125	304	92	342	125	312	128
3	373	136	316	115	320	120	303	128	297	106	296	117	327	119	354	130	315	144	279	82	312	120	302	114
4	285	125	316	123	285	118	316	118	455	121	285	119	327	126	313	118	350	129	307	102	259	202	296	110
5	311	127	312	127	289	124	328	134	308	122	330	121	360	123	288	101	303	110	298	108	304	118	302	109
6	308	119	304	121	298	127	322	126	291	114	294	114	338	114	297	119	307	120	274	106	299	119	321	118
7	309	131	287	123	290	107	334	130	314	125	319	107	294	112	316	120	345	148	259	102	367	124	331	130
8	285	123	270	103	267	111	311	116	297	110	318	115	300	117	285	116	304	120	285	108	356	115	309	118
9	297	135	284	111	297	116	335	130	293	109	301	106	359	122	343	118	285	108	278	104	311	125	286	108
10	308	121	304	108	302	126	304	123	323	120	312	109	343	118	351	136	298	131	288	101	296	117	307	108
11	297	114	267	118	287	122	317	118	336	128	315	125	314	116	331	113	301	114	285	108	291	113	299	110
12	308	113	289	121	296	127	290	119	334	124	335	116	332	123	308	113	334	129	299	116	312	117	296	96
13	308	113	294	117	327	120	305	116	302	119	347	115	329	119	314	114	285	114	276	101	309	111	275	90
14	300	124	280	109	305	114	267	109	312	115	359	112	324	124	290	121	275	105	312	117	310	118	259	98
15	301	117	294	108	298	114	274	121	305	117	365	117	321	120	297	109	274	98	295	117	300	122	245	99
16	304	124	248	104	319	121	309	113	306	110	327	115	311	119	329	119	274	110	296	105	315	115	288	109
17	290	117	321	103	296	111	291	105	300	121	319	114	325	126	321	117	283	105	283	109	282	158	287	112
18	284	109	274	113	270	114	293	102	337	126	361	131	304	125	305	111	286	102	285	108	282	113	301	109
19	286	99	290	128	259	108	290	99	288	117	331	117	359	131	285	91	293	104	298	111	305	118	294	108
20	285	111	299	129	258	106	316	103	308	115	343	115	324	127	340	132	285	95	369	126	344	145	297	100
21	291	121	309	117	278	105	297	107	333	124	349	117	301	126	310	111	314	103	310	124	307	126	298	119
22	281	124	301	100	295	112	289	112	332	116	285	108	310	120	297	113	286	96	282	108	328	144	316	134
23	257	108	281	105	293	117	327	116	306	116	362	123	319	117	306	113	267	101	302	106	349	133	298	114
24	262	101	306	119	304	123	285	109	290	111	340	114	300	122	326	119	301	105	285	96	285	108	340	136
25	275	104	293	121	272	120	280	102	325	128	317	115	303	112	314	116	316	103	288	94	289	119	311	122
26	272	99	268	118	278	110	282	113	328	125	315	115	335	119	269	111	297	93	308	122	308	113	306	109
27	328	120	322	117	304	107	332	131	314	111	333	112	346	136	302	125	299	85	308	116	313	109	306	133
28	273	116	263	111	312	106	310	121	319	124	353	119	326	122	306	107	298	97	305	114	303	114	327	141
29	318	126	273	103	294	112	281	112	323	136	329	116	307	115	350	122	275	88	285	105	311	108	287	128
30	278	112			334	116	312	115	323	114	307	122	321	124	376	105	286	97	313	108	324	122	276	123
31	304	112			318	117			327	112			357	124	367	124			233	137			285	108
Avg	297	118	291	114	296	115	303	117	317	118	327	116	325	122	318	117	297	110	293	108	312	123	298	114
Min	257	99	248	100	258	105	267	99	288	99	285	106	294	112	269	91	267	85	233	82	259	108	245	90
Max	373	136	322	129	334	127	335	137	455	136	365	131	360	136	376	159	350	148	369	137	367	202	340	141

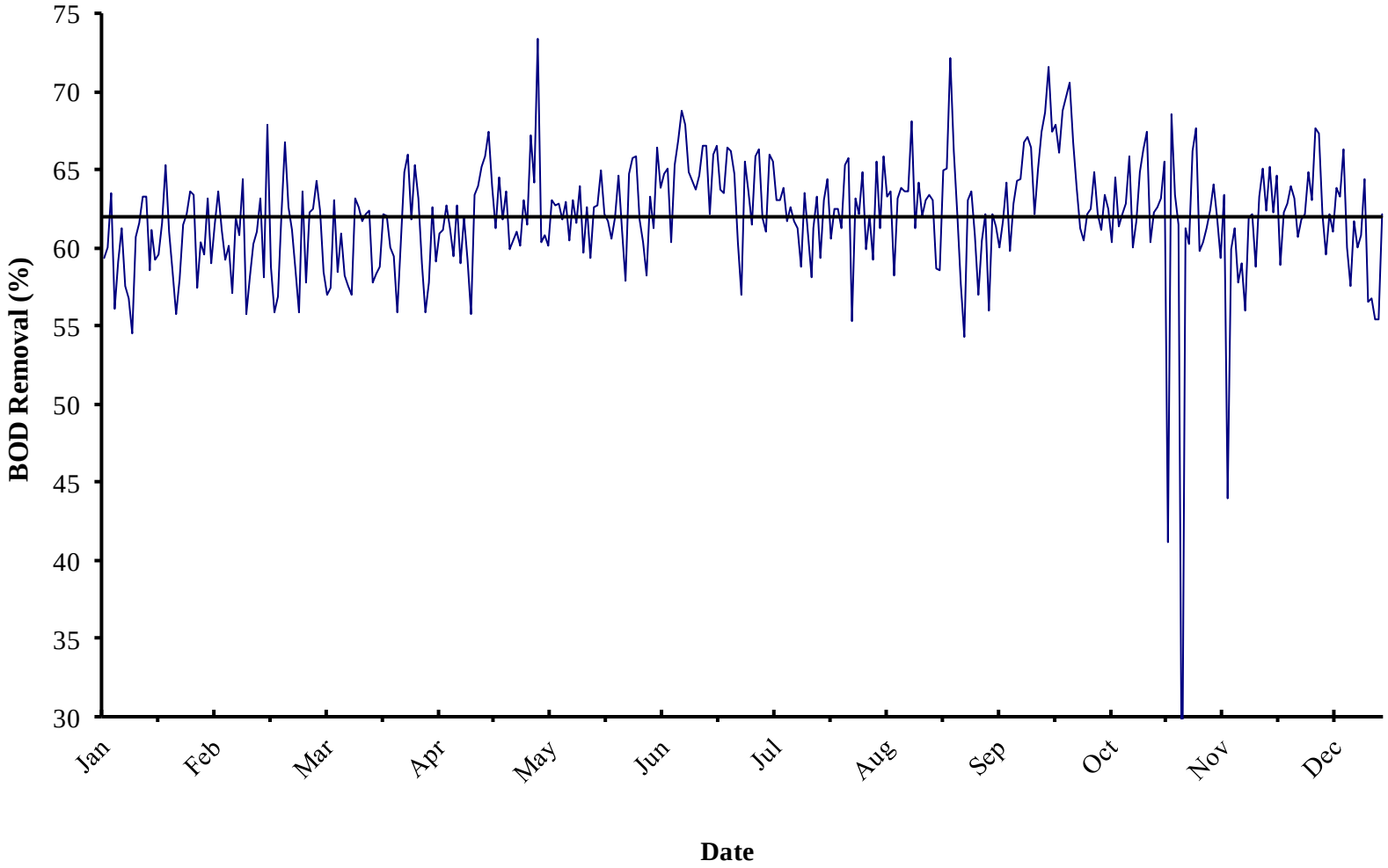
Summary	
Inf	Eff
306	116
233	82
455	202

Point Loma Wastewater Treatment Plant

2012 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	59.3	59.0	62.5	59.0	61.5	65.8	57.0	65.7	62.2	68.8	68.6	64.6	
2	60.0	61.5	64.3	55.9	67.2	61.8	65.5	55.3	57.7	69.7	63.4	58.9	
3	63.5	63.6	62.4	57.8	64.2	60.4	63.6	63.2	54.3	70.6	61.5	62.3	
4	56.1	61.1	58.5	62.6	73.4	58.2	61.5	62.2	63.1	66.7	22.0	62.8	
5	59.1	59.2	57.0	59.1	60.4	63.3	65.8	64.9	63.6	63.8	61.2	63.9	
6	61.3	60.1	57.4	60.9	60.8	61.2	66.3	59.9	60.8	61.2	60.2	63.2	
7	57.5	57.1	63.1	61.1	60.1	66.4	61.9	62.0	57.0	60.5	66.2	60.7	
8	56.8	61.9	58.4	62.7	63.0	63.8	61.0	59.2	60.5	62.2	67.7	61.8	
9	54.5	60.8	60.9	61.2	62.7	64.7	66.0	65.5	62.2	62.5	59.8	62.2	
10	60.7	64.4	58.2	59.5	62.8	65.1	65.5	61.3	56.0	64.9	60.4	64.8	
11	61.6	55.7	57.5	62.7	61.8	60.3	63.1	65.9	62.1	62.2	61.2	63.1	
12	63.3	58.1	57.0	59.0	62.9	65.3	63.0	63.3	61.4	61.1	62.4	67.6	
13	63.3	60.2	63.2	61.9	60.5	66.9	63.8	63.6	60.0	63.4	64.1	67.3	
14	58.6	61.0	62.6	59.2	63.1	68.8	61.7	58.2	61.7	62.5	61.9	62.1	
15	61.1	63.2	61.7	55.8	61.6	67.9	62.6	63.2	64.2	60.3	59.3	59.6	
16	59.2	58.1	62.1	63.4	64.0	64.8	61.7	63.8	59.8	64.5	63.4	62.1	
17	59.6	67.9	62.4	63.9	59.7	64.3	61.2	63.6	62.8	61.4	44.0	61.0	
18	61.6	58.8	57.8	65.2	62.6	63.7	58.8	63.6	64.3	62.2	59.9	63.8	
19	65.3	55.9	58.3	65.8	59.3	64.6	63.5	68.1	64.4	62.8	61.2	63.3	
20	61.0	56.9	58.8	67.4	62.6	66.5	60.8	61.2	66.7	65.8	57.8	66.3	
21	58.4	62.1	62.2	64.0	62.7	66.5	58.1	64.2	67.1	60.0	59.0	60.0	
22	55.8	66.7	62.0	61.2	65.0	62.2	61.2	62.0	66.4	61.7	56.0	57.6	
23	58.0	62.6	60.0	64.5	62.1	66.0	63.3	63.1	62.1	64.9	61.9	61.7	
24	61.5	61.1	59.5	61.8	61.7	66.5	59.3	63.4	65.1	66.3	62.2	60.0	
25	62.2	58.6	55.9	63.6	60.6	63.7	63.0	63.1	67.4	67.4	58.8	60.8	
26	63.6	55.9	60.4	59.9	61.9	63.5	64.4	58.7	68.7	60.4	63.3	64.4	
27	63.4	63.6	64.8	60.5	64.6	66.4	60.6	58.6	71.6	62.3	65.1	56.5	
28	57.4	57.8	66.0	61.0	61.1	66.2	62.5	65.0	67.4	62.6	62.4	56.8	
29	60.3	62.3	61.8	60.1	57.9	64.7	62.5	65.1	67.9	63.2	65.2	55.4	
30	59.6		65.3	63.1	64.7	60.3	61.3	72.1	66.1	65.5	62.3	55.4	
31	63.2		63.2		65.7		65.3	66.2		41.2		62.2	Annual Summary
Avg	60.2	60.5	60.8	61.5	62.7	64.3	62.4	63.1	63.2	63.0	60.1	61.7	62.0
Min	54.5	55.7	55.9	55.8	57.9	58.2	57.0	55.3	54.3	41.2	22.0	55.4	22.0
Max	65.3	67.9	66.0	67.4	73.4	68.8	66.3	72.1	71.6	70.6	68.6	67.6	73.4

Point Loma Wastwater Treatment
2012 BOD Removal (%) at Point Loma

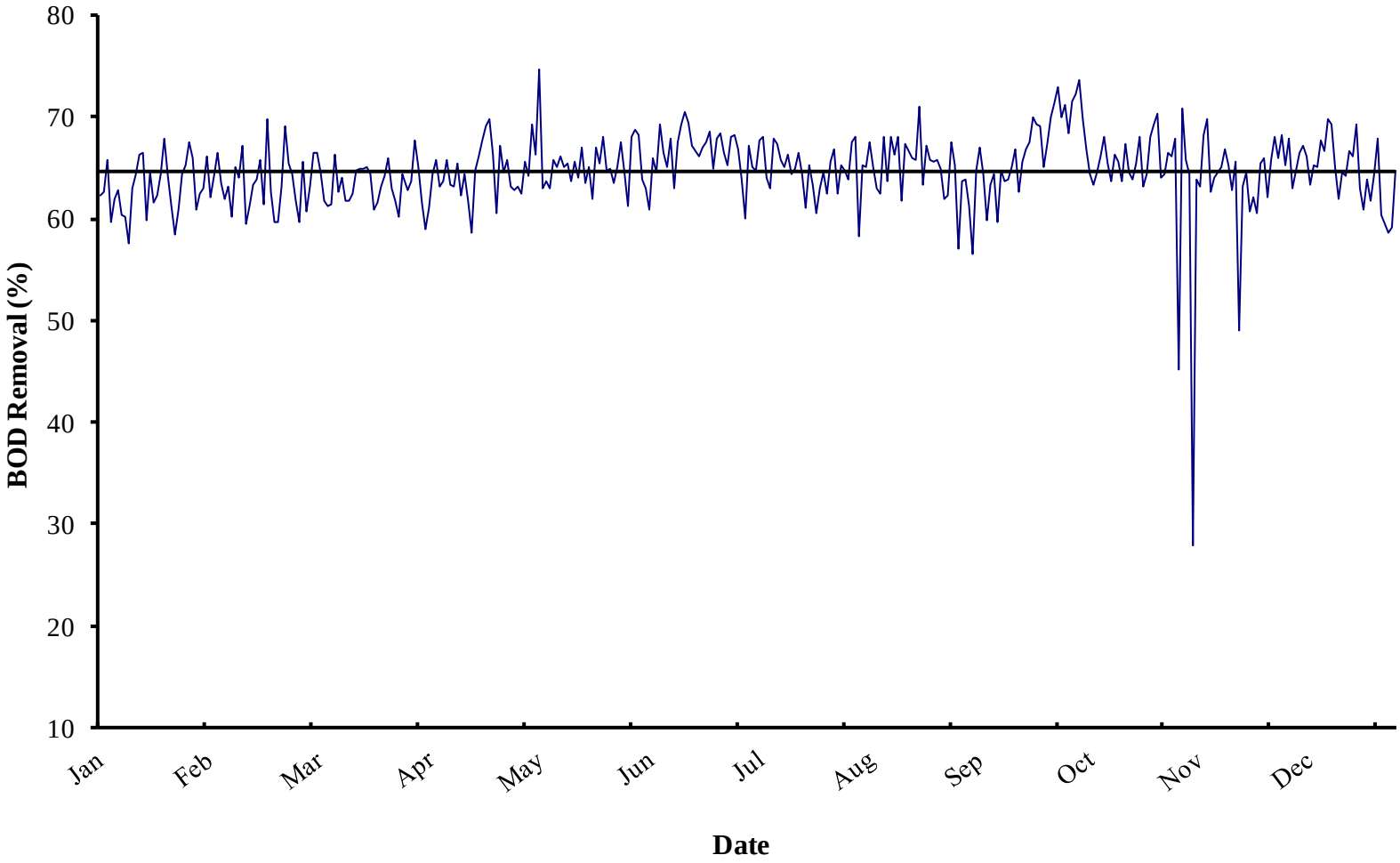


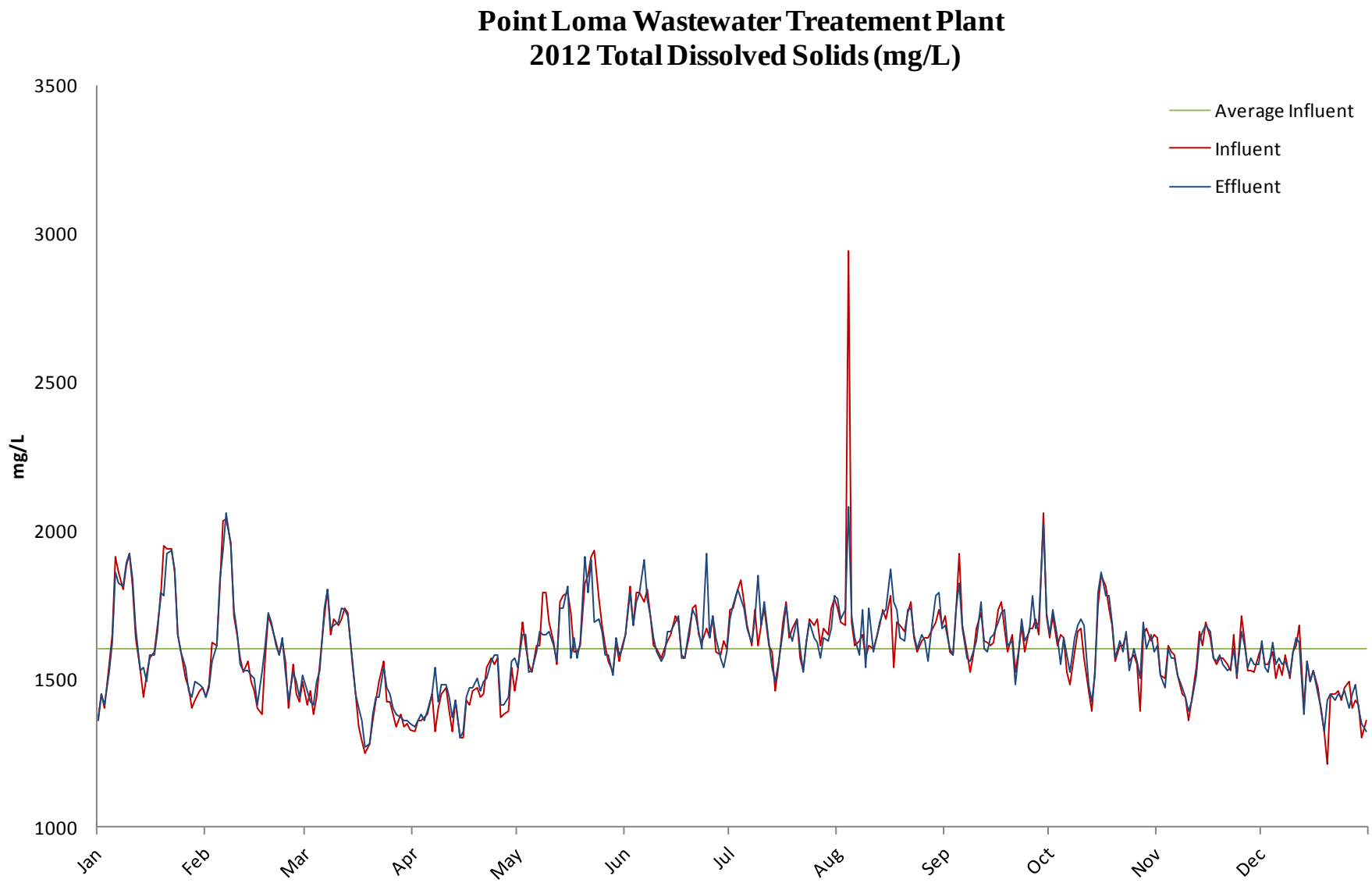
Point Loma Wastewater Treatment Plant

2012 Biochemical Oxygen Demand Removals (%) Systemwide

Day	Jan % Rem	Feb % Rem	Mar % Rem	Apr % Rem	May % Rem	Jun % Rem	Jul % Rem	Aug % Rem	Sep % Rem	Oct % Rem	Nov % Rem	Dec % Rem	
1	62.3	62.1	66.5	61.5	64.2	68.3	60.0	68.1	63.9	71.5	70.8	67.8	
2	62.7	64.2	66.5	59.0	69.3	63.8	67.2	58.2	61.2	72.2	65.8	63.0	
3	65.8	66.5	64.5	61.1	66.3	63.0	65.0	65.3	56.6	73.6	64.4	64.8	
4	59.6	63.5	61.8	64.3	74.6	60.9	64.8	65.1	64.8	69.8	27.9	66.4	
5	61.9	61.9	61.2	65.7	62.9	65.9	67.7	67.5	67.0	66.8	63.9	67.2	
6	62.8	63.1	61.4	63.2	63.6	64.5	68.1	65.0	64.3	64.3	63.1	66.2	
7	60.4	60.1	66.3	63.6	63.0	69.3	64.1	63.0	59.8	63.4	68.2	63.3	
8	60.1	65.1	62.7	65.7	65.8	66.4	63.0	62.5	63.4	64.5	69.8	65.3	
9	57.6	64.0	64.0	63.3	65.1	65.0	67.9	68.0	64.4	66.2	62.6	65.1	
10	63.0	67.2	61.7	63.2	66.1	67.9	67.3	63.6	59.6	68.0	64.0	67.7	
11	64.4	59.5	61.7	65.5	65.0	62.9	65.7	68.0	64.8	65.5	64.5	66.6	
12	66.3	61.2	62.4	62.2	65.4	67.5	65.0	66.3	63.7	63.7	65.1	69.8	
13	66.4	63.4	64.8	64.3	63.7	69.2	66.3	68.1	63.9	66.3	66.8	69.2	
14	59.8	63.8	64.9	61.8	65.6	70.5	64.3	61.7	65.0	65.6	65.2	65.0	
15	64.5	65.8	64.9	58.7	64.0	69.5	64.9	67.4	66.8	63.6	62.8	62.0	
16	61.6	61.4	65.1	64.8	67.0	67.1	66.5	66.6	62.7	67.4	65.6	64.5	
17	62.2	69.8	64.4	66.1	63.5	66.6	64.3	65.9	65.6	64.5	49.1	64.2	
18	64.4	62.7	60.8	67.7	65.1	66.1	61.1	65.8	66.9	63.9	63.2	66.7	
19	67.8	59.6	61.5	69.1	62.0	67.0	65.2	71.0	67.6	65.4	64.6	66.2	
20	64.2	59.7	63.2	69.8	67.0	67.6	63.3	63.4	69.9	68.1	60.7	69.2	
21	61.3	63.2	64.2	66.3	65.4	68.6	60.6	67.1	69.3	63.1	62.1	62.9	
22	58.5	69.1	65.9	60.6	68.0	64.9	63.0	65.7	69.1	64.4	60.5	60.8	
23	60.9	65.4	62.9	67.1	64.7	67.9	64.5	65.6	65.0	68.0	65.5	63.9	
24	64.3	64.4	61.7	64.5	64.9	68.4	62.4	65.8	67.3	69.3	65.9	61.8	
25	65.2	61.7	60.1	65.8	63.5	66.5	65.6	64.9	69.9	70.3	62.1	64.4	
26	67.5	59.7	64.4	63.1	65.0	65.3	66.8	61.9	71.3	64.0	65.7	67.8	
27	65.9	65.6	63.8	62.8	67.6	68.1	62.5	62.2	72.9	64.3	68.0	60.3	
28	60.8	60.7	62.8	63.1	64.5	68.2	65.2	67.5	69.9	66.4	66.0	59.5	
29	62.4	63.1	63.7	62.5	61.2	66.9	64.8	65.3	71.1	66.2	68.3	58.6	
30	62.9		67.7	65.6	68.1	63.8	63.9	57.0	68.4	67.8	65.3	59.1	Annual
31	66.2		65.1		68.7		67.5	63.6		45.1		64.8	Summary
Avg	63.0	63.4	63.6	64.1	65.5	66.6	64.8	65.1	65.9	65.9	63.3	64.6	64.6
Min	57.6	59.5	60.1	58.7	61.2	60.9	60.0	57.0	56.6	45.1	27.9	58.6	27.9
Max	67.8	69.8	67.7	69.8	74.6	70.5	68.1	71.0	72.9	73.6	70.8	69.8	74.6

Point Loma Wastewater Treatment Plant
2012 BOD Removal (%) Systemwide




Point Loma Wastewater Treatement Plant
2012 Total Dissolved Solids (mg/L)
3500
3000
2500
2000
1500
1000
mg/L
Average Influent
Influent
Effluent
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec

Point Loma Wastewater Treatment Plant

2012 Total Dissolved Solids (mg/L)

	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
Day	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1370	1360	1440	1440	1410	1460	1320	1340	1530	1540	1650	1650	1730	1700	1740	1770	1710	1680	1640	1650	1640	1610	1610	1630
2	1450	1450	1480	1470	1460	1420	1360	1360	1690	1650	1810	1790	1740	1750	1690	1700	1590	1600	1710	1730	1510	1510	1550	1540
3	1400	1410	1620	1560	1380	1410	1360	1380	1610	1650	1680	1680	1800	1800	1680	1730	1580	1580	1610	1640	1500	1470	1550	1520
4	1550	1520	1610	1610	1440	1490	1370	1360	1550	1520	1790	1760	1830	1770	2940	2080	1730	1740	1650	1550	1610	1600	1590	1620
5	1650	1620	1810	1830	1550	1530	1380	1390	1520	1530	1790	1790	1760	1740	1690	1710	1920	1820	1640	1640	1590	1570	1500	1550
6	1910	1860	2030	1930	1710	1740	1450	1450	1610	1590	1760	1900	1680	1670	1610	1640	1680	1670	1520	1580	1580	1570	1550	1570
7	1860	1820	2040	2060	1800	1800	1320	1540	1610	1660	1800	1770	1610	1620	1630	1580	1590	1570	1480	1520	1510	1510	1510	1550
8	1800	1810	1960	1950	1650	1670	1400	1420	1790	1650	1710	1710	1730	1700	1650	1730	1520	1560	1590	1640	1450	1470	1580	1560
9	1880	1890	1710	1730	1700	1680	1450	1480	1790	1650	1610	1640	1610	1850	1570	1540	1580	1590	1660	1680	1440	1440	1500	1510
10	1920	1920	1650	1660	1680	1690	1470	1480	1690	1660	1600	1590	1680	1680	1610	1740	1670	1630	1670	1700	1360	1390	1590	1590
11	1810	1840	1570	1550	1700	1740	1390	1440	1620	1610	1570	1560	1740	1760	1600	1590	1720	1760	1570	1680	1430	1420	1610	1640
12	1640	1670	1520	1530	1740	1730	1320	1370	1550	1560	1600	1580	1610	1620	1640	1640	1630	1600	1460	1480	1540	1510	1680	1620
13	1530	1530	1560	1530	1720	1710	1430	1430	1760	1740	1630	1660	1590	1540	1680	1690	1620	1590	1390	1420	1660	1630	1400	1380
14	1440	1540	1490	1510	1550	1560	1300	1300	1780	1740	1650	1660	1460	1490	1730	1720	1610	1640	1530	1510	1610	1660	1560	1560
15	1510	1490	1460	1500	1450	1450	1300	1320	1790	1810	1710	1690	1540	1550	1700	1730	1620	1650	1750	1790	1690	1680	1490	1490
16	1570	1580	1400	1410	1340	1400	1430	1440	1720	1570	1690	1710	1690	1660	1780	1870	1730	1690	1850	1860	1640	1660	1530	1530
17	1590	1580	1380	1520	1290	1360	1410	1470	1590	1640	1580	1570	1760	1750	1540	1760	1760	1720	1810	1780	1570	1570	1470	1450
18	1680	1660	1570	1610	1250	1270	1460	1470	1590	1570	1570	1570	1640	1660	1690	1730	1670	1730	1740	1780	1550	1560	1390	1400
19	1770	1790	1710	1720	1280	1280	1470	1500	1610	1620	1650	1670	1670	1630	1680	1640	1590	1610	1680	1690	1570	1580	1320	1320
20	1950	1780	1680	1690	1360	1380	1440	1460	1820	1910	1740	1730	1700	1700	1660	1630	1650	1630	1560	1570	1570	1550	1210	1430
21	1940	1920	1620	1610	1430	1440	1450	1490	1850	1790	1750	1710	1570	1600	1720	1730	1520	1480	1610	1630	1550	1530	1450	1450
22	1940	1930	1580	1580	1490	1440	1540	1500	1910	1900	1650	1660	1530	1520	1760	1740	1590	1580	1610	1590	1530	1540	1450	1430
23	1860	1870	1630	1640	1560	1540	1570	1560	1930	1690	1620	1600	1620	1630	1640	1650	1680	1700	1650	1660	1650	1600	1460	1450
24	1650	1650	1560	1520	1420	1470	1550	1580	1770	1700	1670	1920	1700	1690	1590	1600	1590	1630	1560	1530	1500	1510	1430	1440
25	1590	1590	1400	1430	1420	1450	1570	1580	1680	1660	1640	1640	1680	1640	1630	1650	1670	1660	1580	1600	1710	1660	1470	1460
26	1500	1540	1550	1520	1380	1400	1370	1410	1610	1580	1710	1710	1700	1620	1640	1630	1670	1780	1550	1560	1630	1610	1490	1400
27	1470	1460	1450	1490	1340	1380	1380	1410	1560	1580	1590	1640	1610	1570	1640	1560	1700	1670	1390	1500	1530	1540	1400	1450
28	1400	1440	1420	1440	1380	1370	1390	1440	1520	1510	1580	1570	1670	1640	1660	1660	1650	1690	1650	1690	1530	1570	1430	1480
29	1430	1490	1490	1510	1340	1360	1540	1560	1620	1640	1630	1540	1650	1630	1690	1780	2060	2020	1670	1600	1520	1550	1410	1400
30	1460	1480			1350	1360	1460	1570	1560	1580	1600	1590	1740	1670	1730	1790	1710	1720	1630	1650	1580	1550	1300	1350
31	1470	1470			1330	1350			1610	1600			1770	1780	1680	1670			1650	1590			1360	1320
Avg	1645	1644	1600	1605	1481	1495	1422	1450	1672	1648	1668	1675	1671	1665	1706	1699	1667	1666	1615	1629	1558	1554	1479	1487
Min	1370	1360	1380	1410	1250	1270	1300	1300	1520	1510	1570	1540	1460	1490	1540	1540	1520	1480	1390	1420	1360	1390	1210	1320
Max	1950	1930	2040	2060	1800	1800	1570	1580	1930	1910	1810	1920	1830	1850	2940	2080	2060	2020	1850	1860	1710	1680	1680	1640

Summary	
Influent	Effluent
1599	1601
1210	1270
2940	2080

Point Loma Wastewater Treatment Plant

2012 Max Chlorine (mg/L)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
1	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.40	
3	0.00	0.16	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.11	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.28	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	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	0.55	0.00	0.00	
8	0.00	0.10	0.13	0.00	0.05	0.00	0.00	0.00	0.00	0.17	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	0.37	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.04	0.09	0.00	0.00	0.00	0.00	0.26	0.27	
12	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.37	0.00	0.45	0.00	0.00	
13	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	3.32	
15	0.00	0.39	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.13	0.00	1.49	
16	0.00	0.23	0.41	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.29	
17	0.00	0.04	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.38	
18	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.14	0.39	
19	0.00	0.00	0.42	0.07	0.00	0.00	0.00	0.00	0.00	1.02	0.00	0.00	
20	0.00	0.00	0.26	0.00	0.05	0.00	0.00	0.00	0.00	0.64	0.14	0.00	
21	0.00	0.00	0.30	0.00	0.05	0.00	0.00	0.00	0.00	1.50	0.00	0.00	
22	0.00	0.18	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	
23	0.00	0.04	0.13	0.04	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	
24	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	
26	0.00	0.00	0.54	1.02	0.00	0.00	0.00	0.93	0.00	0.56	0.55	0.00	
27	0.10	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.81	0.00	
28	0.00	0.69	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.59	0.11	0.00	
29	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.20	0.93	
30	0.00		0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.08	
31	0.00		0.00		0.00		0.00	0.00		1.24		0.00	
Average	0.00	0.08	0.12	0.04	0.01	0.00	0.00	0.04	0.00	0.42	0.11	0.27	0.09
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	0.10	0.69	0.55	1.02	0.17	0.09	0.00	0.93	0.02	1.89	0.81	3.32	3.32
Total	0.10	2.44	3.83	1.20	0.36	0.12	0.00	1.30	0.02	13.06	3.36	8.31	34.1

Point Loma Wastewater Treatment Plant
2012 Chorine 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	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	Annual
31	0.00		0.00		0.00		0.00	0.00		0.00		0.00	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 1, 2011. 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 2012

INTRODUCTION

The City of San Diego's Toxicology Laboratory (CSDTL) conducted aquatic toxicity tests (bioassays) as required by 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 calendar year 2012.

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 animals. 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 Materials

Twenty-four hour, flow-weighted, composite effluent samples were collected at the PLWTP and stored at 4 ºC until test initiation. All tests were initiated within 36 hours of sample collection. The 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 from station B8 was used as dilution water in accordance with permit requirements. The B8 receiving water samples were collected from a depth of 2m, stored at 4ºC until test initiation, and used for test initiation within 96 hours of collection or frozen to produce hypersaline brine. 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 ºC, 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 (January–December 2012), acute bioassays using the topsmelt *Atherinops affinis* were conducted as a part of the routine monitoring effort in March and the mandated multiple-species screening effort in October 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 ºC, and used within 96 hours of collection. Upon conclusion of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. Data were analyzed using a combination of multiple comparison and point estimation methods prescribed by USEPA (2002). 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 were subjected to an evaluation of the concentration-response relationship.

Mysid Survival Bioassay

During the current reporting period (January–December 2012), acute bioassays using the mysid shrimp *Mysidopsis bahia*, were conducted as a part of the mandated multiple-species screening effort in October 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.

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 ºC, and used within 96 hours of collection. Upon conclusion of the exposure period, percent survival was recorded. Tests were declared valid if control mortality did not exceed 10%. Data were analyzed using a combination of multiple comparison and point estimation methods prescribed by USEPA (2002). 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

During the current reporting period (January–December 2012), chronic bioassays using the giant kelp, *Macrocystis pyrifera*, were conducted for the PLWTP effluent on a monthly basis 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.

In accordance with USEPA guidelines on method variability, the lower "Percent MSD" (PMSD) bound was also evaluated in order to minimize Type 1 error (i.e., false positive). If the relative difference between an exposure concentration and the control was smaller than the 10^{th} percentile PMSD value listed for the test method in the USEPA guidance document (i.e., 6.5 for germination and 7.9 for growth), then the exposure concentration was treated as if it did not differ significantly from control for the purpose of determining

the NOEC (USEPA, 2000).

Red Abalone Development Bioassay

During the current reporting period (January–December 2012), chronic bioassays using the red abalone, *Haliotis rufescens*, were conducted for the PWLTP effluent on a monthly basis in accordance with USEPA protocol EPA/600/R-95/136 (USEPA 1995). However, due to poor gamete release during spawning induction, no red abalone tests were conducted during 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 ºC. For each test event, spawning was induced in 6-10 abalones in gender-specific vessels. Eggs and sperm were retained and examined under magnification to ensure good quality. Once deemed acceptable, the sperm stock was used to fertilize the eggs, and a specific quantity of fertilized embryos was added to each test replicate and exposed to the effluent series for 48 hours. A receiving water control was also tested.

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.

In accordance with USEPA guidelines on method variability, the lower "Percent MSD" (PMSD) bound was also evaluated in order to minimize Type 1 error (i.e., false positive). If the relative difference between an exposure concentration and the control was smaller than the 10^{th} percentile PMSD value listed for the test method in the USEPA guidance document (i.e., 3.8), then the exposure concentration was treated as if it did not differ significantly from control for the purpose of determining the NOEC (USEPA, 2000).

Topsmelt Survival and Growth Bioassays

During the current reporting period (January–December 2012), chronic bioassays using

the topsmelt, *Atherinops affinis*, were conducted for the PLWTP effluent as a part of the mandated multiple-species re-screening effort in accordance with EPA/600/R-95/136 (USEPA 1995).

Larval topsmelt (9-14 days old) were purchased from Aquatic Bio Systems (Fort Collins, CO) and exposed for seven days in a static-renewal system to the effluent. The test endpoints are survival and growth (dry biomass).

Simultaneous reference toxicant testing was performed using reagent grade copper chloride. The 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.

In accordance with USEPA guidelines on method variability, the lower "Percent MSD" (PMSD) bound was also evaluated in order to minimize Type 1 error (i.e., false positive). Although PMSD bounds have not been established for the topsmelt, percentiles of PMSD for a comparable method using the inland silverside (*Menidia beryllina*) may be considered (Hemmer, 1992). If the relative difference between an exposure concentration and the control was smaller than the 10^{th} percentile PMSD value listed for the inland silverside test method in the USEPA guidance document (i.e., 7.0 for 96-h survival and 12.0 for growth), then the exposure concentration was further evaluated using other EPA-approved statistical strategies (USEPA, 2000).

Purple Sea Urchin Fertilization Bioassay

During the current reporting period (January–December 2012), chronic bioassays using the purple sea urchin, *Strongylocentrotus purpuratus*, were conducted for the PLWTP effluent as an alternate to the red abalone development bioassay during months in which gravid red abalones were potentially unavailable 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 ºC. For each test event, spawning was induced in at least six 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 determined separately 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.

In accordance with USEPA guidelines on method variability, the lower "Percent MSD" (PMSD) bound was also evaluated in order to minimize Type 1 error (i.e., false positive). If the relative difference between an exposure concentration and the control was smaller than the 10^{th} percentile PMSD value listed for the test method in the USEPA guidance document (i.e., 5.1), then the exposure concentration was treated as if it did not differ significantly from control for the purpose of determining the NOEC.

RESULTS & DISCUSSION

Acute Toxicity of PLWTP Effluent

In 2012, the City conducted semi-annual acute bioassays of the PLWTP effluent using the topsmelt and mysid shrimp. The latter species was tested as a part of the first of three mandated acute screening events. All tests met the acceptability criterion of >90% control survival and demonstrated compliance with permit standards (Table T.1). The results from three valid screening events will be reviewed during a subsequent reporting period to select the most sensitive species for subsequent monitoring.

Chronic Toxicity of PLWTP Effluent

In 2012, 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.

Following the screening events, the City continued to conduct 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 2012 were within compliance limits.

LITERATURE CITED

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TABLE T.1

Results of PLWTP effluent acute toxicity tests conducted in 2012. Data are presented as acute toxic units (TUa).

Sample Date	Topsmelt 96-Hour Bioassay	Mysid 96-Hour Bioassay
3/11/2012	3.62	-
10/14/2012	3.27	4.31
N	2	1
No. in compliance	2	1
Mean TUa	3.45	4.31

NPDES permit limit: 6.42 TUa

TABLE T.2

Results of PLWTP effluent chronic toxicity tests conducted in 2012. Data are presented as chronic toxic units (TUc).

	Giant Kelp		Red Abalone		Topsmelt		Purple Urchin
	Germination	Growth	Development		Survival	Growth	Fertilization
Sample Date			Exclusive	Inclusive			
01/09/2012	64	64	64	64	-	-	-
02/09/2012	-	-	-	-	64	64	-
02/12/2012	64	64	-	-	-	-	-
02/14/2012	-	-	64	64	-	-	-
03/05/2012	114	64	64	64	64	64	64
04/12/2012	-	-	-	-	64	64	-
04/15/2012	64	114	-	-	-	-	-
04/17/2012	-	-	114	114	-	-	114
05/07/2012	64	N.V.	64	64	-	-	-
05/22/2012	64	64	-	-	-	-	-
06/11/2012	N.V.	64	N.V.	64	-	-	64
06/25/2012	64	64	-	-	-	-	-
07/09/2012	64	64	64	64	-	-	-
08/06/2012	64	64	64	64	-	-	64
09/10/2012	64	64	64	64	-	-	64
10/08/2012	114	64	64	64	-	-	-
11/05/2012	64	64	64	64	-	-	-
12/10/2012	64	64	-	-	-	-	-
12/17/2012	-	-	DNS	DNS	-	-	64
N	13	13	10	11	3	3	6
No. in compliance	13	13	10	11	3	3	6
Mean TUc	71.7	67.8	69.0	68.5	64.0	64.0	72.3

NPDES permit limit: 205 TUc

N.V.: Test not valid
DNS: Animals gravid but did not spawn

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G. 6-Year Tables

ARSENIC (ug/L) 2007

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

ARSENIC (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.97	0.71	1.13	0.50	1.28	0.48	0.93	0.58			1.36	0.90	0.90	0.72	1.06	0.75	1.29	0.86	1.19	0.87			1.22	0.81
2	1.63	0.64	1.89	0.58	1.01	0.45	1.14	0.88	1.28	0.98	1.13	0.71	1.23	0.71	1.27	0.82	0.97	0.71	1.30	0.66	0.87	0.79	1.10	0.72
3	0.91	0.50	1.23	0.58	1.07	0.43	1.27	0.69	1.39	0.95	1.06	0.91	1.19	0.73	1.16	0.96	1.03	0.84	1.24	0.73	1.01	0.72	2.85	1.55
4	1.21	0.55	1.38	0.79	0.82	0.69	1.30	0.86	1.34	0.95	1.03	0.54	1.19	0.77	1.34	0.91	1.15	0.84	1.20	0.83	1.05	0.68	1.48	1.07
Avg	1.18	0.60	1.41	0.61	1.05	0.51	1.16	0.75	1.34	0.96	1.15	0.77	1.13	0.73	1.21	0.86	1.11	0.81	1.23	0.77	0.98	0.73	1.66	1.04

ARSENIC (ug/L) 2009

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

ARSENIC (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.16	0.82	1.58	0.82	1.39	0.82	1.13	0.95	1.52	0.91	1.38	0.79	1.01	0.70	1.32	1.06	1.29	1.15	1.23	0.84	0.87	0.95		
2	1.07	0.53	1.28	0.90	1.87	0.96	1.93	0.95	1.14	0.61	1.20	0.83	0.85	0.62	1.37	1.07	1.10	0.84	1.30	0.83	1.05	0.64	1.37	0.85
3	3.08	1.54	1.44	0.78	1.41	0.89	1.31	0.76	0.97	0.65	1.13	0.82	0.73	0.64	1.45	1.02	0.90	0.74	1.25	0.98	1.45	1.02	1.47	0.86
4	1.56	0.82			1.37	0.93	1.15	0.84	1.01	0.68			0.84	0.57	1.35	1.07	1.10	0.79	0.83	0.92	1.00	0.56	3.34	1.62
Avg	1.7175	0.93	1.43	0.83	1.51	0.90	1.38	0.88	1.16	0.71	1.24	0.81	0.86	0.63	1.37	1.06	1.10	0.88	1.15	0.89	1.09	0.79	2.06	1.11

ARSENIC (ug/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.73	0.95	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	1.34	0.85	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	1.27	0.78	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	1.59	0.97	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
															0.66	0.75								
Avg	1.48	0.89	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

ARSENIC (ug/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.92	0.78	1.16	0.66	0.85	0.79	0.73	0.45	1.27	0.63	0.5	ND	1.4	0.9	1.0	0.8	1.1	0.8	1.1	0.8	1.2	0.8	0.9	0.6
2	0.85	0.75	0.77	0.75	1.38	0.81			0.89	ND	1.2	0.8	1.3	0.9	1.2	0.7	1.0	0.8	0.9	0.8	1.1	0.9	0.7	0.6
3	0.87	0.56	0.89	0.73	1.27	0.54	1.09	0.88	ND	0.55	1.1	0.8	1.3	0.9	1.0	0.8	0.9	0.8	1.1	0.8	1.2	0.8	1.0	0.8
4	0.75	0.43	1.01	0.66	0.82	ND	1.07	0.52	ND	ND	1.1	0.8	1.3	0.9	1.1	0.8	0.9	0.6	1.0	0.8	0.9	0.7	0.9	0.7
															1.1	0.7			1.0	0.7				
Avg	0.85	0.63	0.96	0.70	1.08	0.54	0.96	0.62	0.54	0.30	1.0	0.6	1.3	0.9	1.1	0.8	1.0	0.8	1.0	0.8	1.1	0.8	0.9	0.7

CADMIUM (ug/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	1.4	1.3	0.6	ND	ND	<0.5	ND	ND	ND	ND	ND		
2	ND	ND	ND	ND	38.3	ND	ND	ND	ND	ND	2.6	1.7	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	0.6	ND	0.7	<0.5	ND	ND	0.7	ND	ND	ND	0.7	ND	ND	ND	ND	ND	0.6	0.6	ND	ND	ND	ND	ND	ND
4	0.7	ND			ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	0.3	ND	0.2	<0.0	9.6	ND	0.2	ND	ND	ND	1.8	1.0	0.3	0.2	0.2	ND	<0.2	0.2	ND	ND	ND	ND	ND	ND

CADMIUM (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

CADMIUM (ug/L) 2009

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

CADMIUM (ug/L) 2010

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

CADMIUM (ug/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	0.8	0.8	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	1.1	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND
4	1.2	0.9	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND
			ND	ND											ND	ND								
Average	0.8	0.6	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

CADMIUM (ug/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	ND	ND	ND	ND	ND	ND	ND	0.70	ND	ND	ND	0.00	ND
2	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	<0.53	ND	ND	ND	ND	ND	0.87	ND	ND	0.67	0.67
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.43	ND	ND	ND	0.65	0.53
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.75	0.55	ND	ND	ND	ND	ND	ND	ND	0.59	ND	ND	ND	0.83	0.55
															ND	ND			0.00	ND				
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19	0.39	ND	ND	0	ND	ND	ND	ND	0.54	0.17	ND	ND	0.54	0.44

CHROMIUM (ug/L) 2007

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

CHROMIUM (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	5.6	ND	16.7	3.2	11.7	3.5	3.9	ND			2.9	ND	10.0	1.3	6.8	2.4	8.1	1.7	8.0	ND			4.9	ND
2	6	ND	18.8	1.8	7.7	1.8	7.1	ND	10.3	ND	4.3	ND	6.1	ND	5.2	<1.2	5.5	1.5	5.5	<1.2	8.5	2.3	6.3	ND
3	5.9	ND	4.7	1.7	6.3	2.0	9.3	ND	12.1	2.4	4.9	2.4	6.4	ND	8.8	2.1	4.2	1.4	3.2	1.4	5.0	1.5	4.5	1.2
4	14.8	ND	4.4	1.6	7.6	ND	3.2	ND	3.9	ND	13.7	3.2	4.7	ND	6.9	1.3	8.9	2.0	44.4	6.5	7.6	3.0	3.4	1.3
Average	8.1	ND	11.2	2.1	8.3	1.8	5.9	ND	8.8	0.8	6.5	1.4	6.8	0.3	6.9	1.5	6.7	1.7	15.3	2.0	7.0	2.3	4.8	0.6

CHROMIUM (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	2.8	1.4	14.3	2.7			6.4	2.0	4.3	2.7	9.3	2.0	5.0	1.3	5.3	<1.2			13.1	1.5	7.5	1.9	8.8	2.0
2	3.7	ND	6.6	1.8	4.3	2.2	10.5	2.2	7.4	6.8	5.8	1.5	7.1	1.4	5.8	2.3	7.7	1.6	5.2	1.6	3.0	2.8	2.7	1.8
3	3.5	ND	6.7	3.4	5.6	2.0	9.5	1.9	12.2	4.0	5.1	2.9	8.1	1.7	5.1	1.5	7.2	1.7	4.8	1.3	4.3	1.4	5.5	1.4
4	19.5	2.3	5.4	2.7	6.1	1.7	5.7	1.3	9.5	1.5	5.5	ND	6.3	ND	5.7	2.2	6.3	ND	6.9	3.1	14.3	2.2	6.5	1.6
Average	7.4	0.9	8.3	2.7	5.3	2.0	8.0	1.9	8.4	3.8	6.4	1.6	6.6	1.1	5.5	1.5	7.1	1.1	7.5	1.9	7.3	2.1	5.9	1.7

CHROMIUM (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	5.6	1.3	6.9	1.9	6.5	1.7	7.6	2.8	7.7	2.0	12.7	1.7	6.3	1.6	10.3	2.1	4.6	2.5	7.9	1.9	6.2	ND		
2	9.7	2	7.3	2.4	6.4	1.7	10.6	2.5	8.5	2.0	7.7	1.9	5.8	1.8	10.1	2.6	7.3	2.4	14.8	3.3	7.9	2.2	8.5	<1.2
3	5.1	1.8	10.3	2.9	7.0	2.2	9.8	1.7	20.3	6.0	7.1	ND	4.1	1.9	7.6	1.2	8.6	2.5	7.6	1.4	4.7	ND	9.0	2.2
4	6	2			6.9	1.9	7.9	1.8	8.2	2.4			5.0	1.8	8.6	1.8	6.7	1.5	6.3	ND	6.2	1.9	4.8	1.7
Average	6.6	1.8	8.2	2.4	6.7	1.9	9.0	2.2	11.2	3.1	9.2	1.2	5.3	1.8	9.2	1.9	6.8	2.2	9.2	1.7	6.3	1.0	7.4	1.3

CHROMIUM (ug/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	3.8	ND	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	4.4	2.1	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	8.5	2.3	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	7.6	1.3	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
															5.0	1.5								
Average	6.1	1.4	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

CHROMIUM (ug/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	4.9	<1.2	6.8	1.8	4.70	1.85	6.00	1.80	6.40	2.40	7.6	2.2	6.3	1.9	5.3	1.9	2.5	ND	5.3	2.0	4.5	2.0	3.7	2.4
2	7.1	1.8	5.5	1.8	5.30	1.80			7.00	1.70	6.2	2.1	4.3	2.5	5.4	1.8	3.4	ND	5.0	1.8	6.5	1.9	5.5	1.2
3	7.5	1.9	4.1	1.2	5.50	1.90	7.10	2.20	7.00	2.05	7.1	2.0	7.0	2.0	4.5	1.7	2.5	ND	6.2	1.7	8.2	2.8	3.9	1.5
4	4.9	1.7	7.3	1.7	5.70	2.00	6.00	2.10	7.50	2.10	8.7	1.9	5.6	2.0	6.5	1.4	3.6	ND	6.0	1.3	5.7	2.2	4.6	ND
															5.9	ND			6.3	1.9				
Average	6.1	1.8	5.9	1.6	5.30	1.89	6.37	2.03	6.98	2.06	7.4	2.1	5.8	2.1	5.5	1.7	3.0	ND	5.8	1.7	6.2	2.2	4.4	1.3

COPPER (ug/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	92	15	52	26	79	14	104	15	79	9	139	15	106	14	96	48	85	18	117	18	90	11		
2	80	14	32	16	87	16	93	15	89	8	100	12	118	33	112	10	96	16	97	14	94	18	75	11
3	60	15	47	13	94	14	92	12	97	9	102	11	135	27	84	51	120	10	76	7	68	21	87	12
4	99	14			99	10	99	17	91	9			112	65	102	11	117	8	93	6	91	11	79	17
Average	83	15	44	18	90	14	97	15	89	9	114	13	118	35	99	30	105	13	96	11	86	15	80	13

COPPER (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	60	11	66	17	88	20	75	22			73	22	111	15	113	20	70	20	91	19			130	25
2	100	14	153	16	93	23	93	21	86	22	100	24	102	15	106	14	97	21	105	17	91	18	111	22
3	84	10	76	15	84	21	98	18	77	18	117	35	109	14	131	16	89	22	48	17	88	19	81	24
4	71	8	63	18	77	15	91	17	70	21	121	17	103	22	125	16	110	78	106	23	106	22	78	20
Average	79	11	90	17	86	20	89	20	78	20	103	25	106	17	119	17	92	35	88	19	95	20	100	23

COPPER (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	64	28	138	34			104	17	118	25	127	22	120	22	134	22			253.0	13.3	107.0	15.4	110	15.6
2	85	21	106	26	103	37	105	13	125	23	103	15	110	22	117	21	99	17	90.2	16.4	52.0	16.9	40.6	18.6
3	95	21	103	37	98	34	107	14	135	15	107	22	143	20	45	13	108	20	113.0	16.4	69.5	14.3	105	16.4
4	107	20	97	38	108	19	113	13	127	13	124	10	110	20	107	20	107	15	91.7	25.7	105.0	11.3	105	16.2
Average	88	23	111	34	103	30	107	14	126	19	115	17	121	21	101	19	105	17	137.0	18	83.4	14.5	90.2	16.7

COPPER (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	112.0	24.7	102	22.4	89.3	1.7	108	23.8	123	20.8	156	24.7	95.8	19.5	121.0	13.9	99.1	20.2	137.0	30.8	227.0	20.4		
2	147.0	19.4	90.5	19.1	98.7	1.7	107	24.8	128	22.2	123	15.7	87.4	16.6	145.0	31.0	102.0	25.1	129.0	42.9	98.0	20.7	109.0	19.8
3	61.7	15.4	83.9	17.8	112	2.2	117	15.6	104	28.5	88.6	10.9	59.6	17.4	136.0	13.6	105.0	17.9	92.1	29.1	101.0	46.8	110.0	18.5
4	91.7	20.8			105	1.9	114	15.2	85.9	24.1			67.6	13.7	118.0	17.5	113.0	16.9	104.0	18.0	104.0	14.6	59.1	28.2
Average	103.1	20.1	92.1	19.8	101.3	1.9	111.5	19.9	110.2	23.9	122.5	17.1	77.6	16.8	130.0	19.0	104.8	20.0	115.5	30.2	132.5	25.6	92.7	22.2

COPPER (ug/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	73.3	21.5	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	79.0	30.3	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	117.0	27.3	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	115.0	25.0	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
															114.0	19.6								
Average	96.1	26.0	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

COPPER (ug/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	85.1	20.2	84.2	19.6	94	17.9	90	26.8	96	15.2	145	20	158	22	106	24	92	19	116	18	99	16	90	30
2	98.9	238.0	86.2	19.9	81	14.6			131	17	103	17	308	36	135	26	98	15	120	23	118	19	161	23
3	92.5	21.6	63.6	17.6	87	20.1	77	19.7	140	20.5	118	17	160	26	111	18	95	15	118	20	95	17	106	21
4	85.5	20.9	84.0	19.4	90	15.6	95	18.2	120	17.1	346	23	131	24	125	19	104	24	124	18	106	15	101	16
															100	17			135	24				
Average	90.5	75.2	79.5	19.1	88	17.1	87	21.6	121.8	17.5	178	19	189	27	115	21	97	18	123	21	105	17	115	23

LEAD (ug/L) 2007

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

LEAD (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	6.7	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	2.4	ND	2.4	ND	3.4	ND			4.8	ND
2	2.9	ND	5.3	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	2.9	ND	ND	ND	4	ND	3.3	ND	4.2	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	3.3	ND	ND	ND	2.5	ND	3	<2.0	3.6	ND
4	2.5	ND	ND	ND	ND	ND	ND	ND	5.6	ND	ND	ND	ND	ND	3.3	ND	ND	ND	3	ND	4.9	ND	3.3	ND
Average	3	ND	1.3	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	2.98	ND	0.6	ND	3.23	ND	3.7	0	4.0	ND

LEAD (ug/L) 2009

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

LEAD (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	3.2	ND	3.2	ND	2.3	ND	3.9	ND	4.8	<2.0	5.2	ND	2.1	ND	4	ND	2.7	ND	3.4	ND	3.1	ND		
2	4.4	ND	2.7	ND	4.4	ND	5.8	ND	5.7	ND	3.3	ND	5.5	ND	4.3	ND	3.7	ND	15.8	ND	2.6	ND	0.9	ND
3	2.5	ND	2.2	ND	3.7	ND	3.6	ND	3.5	ND	2.5	ND	ND	ND	4.3	ND	2.2	ND	2.0	12.1	2.4	ND	2.0	ND
4	4.2	ND	2.7		3.7	ND	4	ND	2.1	ND			2.3	ND	3.7	ND	2.9	ND	2.3	2.3	3.3	D	ND	ND
Average	3.6	ND	2.7	ND	3.5	ND	4.3	ND	4.0	0.0	3.7	ND	2.5	ND	4.1	ND	2.9	ND	5.9	3.6	2.9	ND	1.0	ND

LEAD (ug/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	2.6	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	ND	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	ND	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	ND	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
															3.5	ND								
Average	0.7	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

LEAD (ug/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	2.4	ND	3.7	<2.0	ND	ND	4.2	ND	2.40	ND	4	ND	9	ND	4	ND	3	ND	3	2	3	2	ND	ND
2	2.4	ND	2.9	ND	3.20	ND			4.00	ND	ND	ND	8	ND	3	<2	ND	ND	ND	ND	2	ND	5	ND
3	2.3	ND	ND	ND	2.30	ND	ND	ND	6.00	ND	ND	ND	8	ND	4	2	2	ND	5	ND	6	ND	4	ND
4	ND	ND	3.5	ND	2.70	ND	3.7	ND	3.40	ND	10	ND	8	ND	3	2	4	ND	4	ND	ND	ND	ND	ND
															5	3			3	ND				
Average	1.8	ND	2.5	0.0	2.05	ND	2.6	ND	3.95	ND	4	ND	8	ND	4	1	2	ND	3	0	3	1	5	ND

NICKEL (ug/L) 2007

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

NICKEL (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	11	8	32	23	25	12	10	7			9	7	18	12	12	7	18	10	13	9			10	5
2	11	8	23	11	12	9	9	5	21	19	9	6	13	9	10	7	11	7	9	7	10	7	11	6
3	12	8	7	6	14	7	12	7	12	8	11	7	12	8	17	10	16	11	9	8	7	5	8	5
4	20	14	8	6	10	7	8	5	11	8	31	17	8	6	11	7	22	11	31	18	14	9	7	5
Average	14	10	18	12	15	9	10	6	15	12	15	9	13	9	13	8	17	10	16	11	10	7	9	5

NICKEL (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	6	5	24	15			9	7	8	6	15	9	12	7	9	7			25.1	6.6	8.6	6.7	12.5	5.8
2	7	5	9	7	7	6	16	10	14	15	11	8	10	6	8	5	15	10	9.0	6.6	5.5	7.1	6.7	6.6
3	6	4	14	10	8	6	10	6	13	8	7	6	11	6	9	6	13	8	8.9	5.3	7.7	5.1	9.9	5.4
4	30	16	10	9	8	6	8	5	15	9	7	5	11	6	9	6	13	7	13.0	8.3	27.6	10.4	8.1	5
Average	12	8	14	10	8	6	11	7	13	10	10	7	11	6	9	6	14	8	14.0	6.7	12.4	7.3	9.3	5.7

NICKEL (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	7.5	4.8	12.4	8.5	13.4	9.5	15.3	7.7	13.2	8.3	13.7	7.1	12.1	7.2	14.9	8	9.7	8	11.2	6.7	10.1	5.4		
2	16.4	9.9	10.1	6.9	9.3	7.4	12.7	6.6	16.2	9.1	8.6	6.4	12.4	7.4	18.5	8.3	14	9.3	18.6	10.5	15.6	9.1	8.2	5.3
3	8.6	5.7	28.3	18.2	12.7	5.3	10.8	6.3	32.8	14.5	19.6	9.3	7.2	5.7	11.4	5.3	24.6	10.6	9.7	8.8	7.6	5.9	11.6	6.9
4	14.3	9.1			12.2	7.2	12.4	7.7	14.5	8.8			7.8	6.8	16.3	8.7	10.5	7.6	9.4	7.3	9.8	6.5	11.9	9.9
Average	11.7	7.4	16.9	11.2	11.9	7.4	12.8	7.1	19.2	10.2	14.0	7.6	9.9	6.8	15.3	7.6	14.7	8.9	12.2	8.3	10.8	6.7	10.6	7.4

NICKEL (ug/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	6.5	5.8	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	9.7	8	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	17.9	11.6	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	14.2	9.3	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
										9.1					8.5	6.3								
Average	12.1	8.7	12.3	8.3	12.2	9.2	12.6	8.2	12.2	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

NICKEL (ug/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	6.6	4.4	8.0	4.3	7.27	4.80	6.95	6.75	7.72	6.39	13.9	9.32	11.50	6.49	7.77	5.7	8.03	7.62	10.40	7.46	7.57	6.44	8.00	6.43
2	9.9	5.6	6.2	4.9	7.80	5.66			9.33	6.03	10.7	9.1	12.60	8.03	9.09	6.76	7.82	6.01	9.38	7.37	11.20	6.90	15.20	7.00
3	8.8	6.3	4.5	2.9	9.80	5.47	8.56	6.06	9.65	6.42	9.4	8.05	9.26	5.89	9.31	5.24	7.88	6.49	9.45	7.47	14.30	5.97	8.75	7.30
4	7.6	4.4	7.0	3.9	6.65	6.70	7.01	4.89	10.40	7.05	14.4	9.54	9.60	6.56	8.92	5.44	8.33	9.01	10.90	8.61	8.86	7.70	8.59	6.64
															9.89	5.25			11.90	6.93				
Average	8.2	5.2	6.4	4.0	7.88	5.66	7.51	5.90	9.28	6.47	12.1	9.0	10.74	6.74	9.00	5.68	8.02	7.28	10.41	7.57	10.48	6.75	10.14	6.84

MERCURY (ug/L) 2007

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

MERCURY (ug/L) 2008

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

MERCURY (ug/L) 2009

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

MERCURY (ug/L) 2010

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

MERCURY (ug/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	65.3	4.24	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	80.0	9.09	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	80.0	13.70	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	159.0	5.69	0.092	0.016	0.1110	0.0056			0.080	0.00508	0.124	0.00442	0.18	0.00918	0.06	0.00328	0.173	0.0292	0.08	0.0038	0.1	0.006	0.13	0.00755
															0.10	0.0069								
Average	96.1	8.18	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

MERCURY (ug/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT*		NOV*		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	0.173	0.009	0.044	0.016	0.074	0.009	0.118	0.008	0.233	0.007	0.215	0.009	0.053	0.010	0.083	0.003	0.120	0.010	0.160	0.005	0.250	0.010	0.071	0.008
2	1.170	0.012	0.143	0.014	0.236	0.009	0.036	0.006	0.126	0.007	0.045	0.003	0.173	0.008	0.093	0.008	0.055	0.004	0.081	0.005	0.063	0.009	0.138	0.005
3	0.125	0.008	0.042	0.006	0.160	0.007	0.156	0.006	0.097	0.007	0.052	0.005	0.217	0.007	0.041	0.002	0.150	0.006	0.110	0.005	0.160	0.009	0.090	0.013
4	0.057	0.006	0.105	0.008	0.130	0.009			0.186	0.008	0.058	0.006	0.127	0.008	0.075	0.005	0.140	0.005	0.140	0.008	0.180	0.010	0.106	0.004
															0.167	0.006			0.220	0.006				
Average	0.381	0.009	0.083	0.011	0.150	0.009	0.103	0.007	0.161	0.007	0.092	0.006	0.142	0.008	0.092	0.005	0.116	0.006	0.142	0.006	0.163	0.009	0.101	0.007

*Did not pass spike recovery.

SILVER (ug/L) 2006

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.6	ND	ND	ND	0.2	<0.2	ND	ND	ND	ND	ND	ND	2.6	0.4	1.1	ND	1.1	ND	2.6	ND	2.1	0.3	3.6	ND
2	1.2	ND	ND	ND	0.3	0.2	ND	ND	3	ND	2.9	ND	4.1	ND	1.3	ND	0.4	ND	3.0	ND	1.4	ND	3.2	ND
3	0.7	ND	ND	ND	1.3	ND	1.5	ND	2.3	ND	1.7	0.4	1	0.2	1.8	ND	0.8	0.4	1.5	ND	1.2	ND	2.8	0.6
4	0.5	ND	0.2	ND			5.7	ND	1.8	0.9	0.4	0.9	0.2	ND	1.9	ND			3.3	0.2	3.1	0.2	4	0.5
Average	1.0	ND	0.1	ND	0.6	0.1	1.8	ND	1.8	0.2	1.3	0.3	2.0	0.2	1.5	ND	0.8	0.1	2.6	0.1	2.0	0.1	3.4	0.3

SILVER (ug/L) 2007

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

SILVER (ug/L) 2008

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

SILVER (ug/L) 2009

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

SILVER (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.0	ND	1.1	ND	1.3	0.6	N	ND	0.7	ND	1.6	ND	0.8	ND	1.9	ND	0.6	ND	2.0	ND	0.7	ND		
2	1.4	ND	1.0	ND	1.5	0.6	0.9	ND	1.1	ND	1.1	ND	0.5	ND	1.1	ND	ND	ND	1.3	ND	0.9	ND	0.9	ND
3	0.8	ND	1.0	ND	1.3	ND	1.1	ND	0.7	ND	0.7	ND	ND	ND	0.9	ND	ND	ND	1.4	ND	1.7	ND	2.0	ND
4	ND	ND			1.2	ND	1.3	ND	ND	ND			ND	ND	0.7	ND	0.7	ND	1.4	ND	1.1	ND	ND	ND
Average	0.8	ND	1.0	ND	1.3	0.3	0.8	ND	0.6	ND	1.1	ND	0.3	ND	1.2	ND	0.3	ND	1.5	ND	1.1	ND	1.0	ND

SILVER (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.0	ND	1.1	ND	1.3	0.6	N	ND	0.7	ND	1.6	ND	0.8	ND	1.9	ND	0.6	ND	2.0	ND	0.7	ND		
2	1.4	ND	1.0	ND	1.5	0.6	0.9	ND	1.1	ND	1.1	ND	0.5	ND	1.1	ND	ND	ND	1.3	ND	0.9	ND	0.9	ND
3	0.8	ND	1.0	ND	1.3	ND	1.1	ND	0.7	ND	0.7	ND	ND	ND	0.9	ND	ND	ND	1.4	ND	1.7	ND	2.0	ND
4	ND	ND			1.2	ND	1.3	ND	ND	ND			ND	ND	0.7	ND	0.7	ND	1.4	ND	1.1	ND	ND	ND
Average	0.8	ND	1.0	ND	1.3	0.3	0.8	ND	0.6	ND	1.1	ND	0.3	ND	1.2	ND	0.3	ND	1.5	ND	1.1	ND	1.0	ND

SILVER (ug/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	1.0	ND	1.0	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
															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) 2007

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

ZINC (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	108	19	111	25	147	25	122	25			123	24	155	21	160	25	167	23	185	19			166	29
2	138	26	267	28	133	23	141	24	162	31	152	29	141	23	157	22	140	24	146	21	136	26	137	28
3	133	18	123	20	143	22	151	27	159	34	159	31	151	20	167	23	125	27	147	21	134	22	122	32
4	122	18	87	21	135	26	135	23	131	32	200	31	148	53	162	22	150	22	140	27	159	25	115	26
Average	125	20	147	24	140	24	137	25	151	32	159	29	149	29	162	23	146	24	155	22	143	24	135	29

ZINC (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	116	32	177	39			151	25	160	24	162	25	158	21	177	31			403	19	152	17	156	20
2	133	29	134	31	126	27	161	23	155	21	143	18	150	21	171	25	142	22	146	22	73	23	61	26
3	144	47	152	28	137	28	151	21	176	21	148	24	173	21	67	19	139	19	153	28	95	20	137	20
4	164	26	141	34	148	24	141	20	171	20	152	12	151	21	142	26	146	19	143	22	159	17	150	23
Average	139	34	151	33	137	26	151	22	166	22	151	20	158	21	139	25	142	20	211	23	120	19	126	22

ZINC (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	155	27	154	28	133	26	144	27	229	23	220	34	136	29	134	25	134	25	181	26	211	30		
2	179	21	136	26	145	25	166	27	203	24	151	21	106	20	157	30	157	30	205	26	156	32	156	26
3	103	28	123	24	178	23	160	22	170	36	135	18	115	20	139	24	139	24	133	29	142	28	155	22
4	142	33			162	24	157	22	137	26			94	23	155	21	155	21	159	23	140	22	91	34
Average	145	27	138	26	155	25	157	25	185	27	169	24	113	23	146	25	146	25	170	26	162	28	134	27

ZINC (ug/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	108	23	144	34	142	31	157	30	203	23	192	24	113	29	172	20	152	34	189	26	178	19	146	19
2	116	35	163	27	160	31	149	26	173	28	159	22	100	30	146	21	162	20	135	25	175	23	140	26
3	159	29	155	26	179	26	150	26	158	25	127	23	125	23	91	26	206	25	159	24	125	18	151	24
4	160	28	119	35	147	22			128	24	144	21	169	19	150	25	173	28	147	20	122	18	167	25
															176	27								
Average	136	29	145	31	157	28	152	27	166	25	156	23	127	25	147	24	173	27	158	24	150	20	151	24

ZINC (ug/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	133	27	154	31	143	29.7	140	35.3	158	18.5	168.0	24.5	203.0	23.7	149.0	23.9	126	26.4	186	26.3	165	23	145	41.9
2	149	28	127	30	134	22.4			197	22.5	148.0	24.2	207.0	26.3	187.0	29.1	131	19.1	171	28.4	182	25	199	29.2
3	148	29	97	24	135	25.6	162	23.7	199	22.5	170.0	33.0	264.0	30.7	164.0	24.0	184	19.2	186	27.0	228	23	154	31.2
4	129	27	131	27	141	22.8	152	21.0	153	18.5	211.0	33.0	206.0	30.9	170.0	56.3	158	26.7	188	24.6	170	25	150	24.1
															174.0	20.9			196	22.0				
Average	140	28	127	28	138	25.1	151	26.7	177	20.5	174.3	28.7	220.0	27.9	168.8	30.8	150	22.9	185	25.7	186	24	162	31.6

AMMONIA (mg/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	31.9	31.6	33.3	33.0	29.7	30.0	33.6	33.3	32.7	31.4	32.9	32.5	30.8	30.5	31.4	30.5	29.4	29.7	32.5	31.6	32.8	31.9		
2	31.1	31.1	31.6	31.4	30.4	30.5	NA	NA	32.2	31.6	33.6	33.3	32.8	31.9	33.3	31.6	31.9	31.4	31.4	30.8	34.4	32.8	8.3	27.4
3	31.4	32.2	29.4	28.6	32.4	31.1	33.5	32.8	30.8	30.8	32.2	31.6	34.4	33.3	31.1	29.7	33.6	32.8	34.4	33.3	29.4	29.4	30.7	29.4
4	29.4	29.7			32.5	32.5	33.3	32.8	NA	NA			32.9	33.0	30.9	30.0	32.4	31.6	32.5	31.1	28.3	28.3	28.8	28.6
							31.9	31.9																
Average	31.0	31.2	31.4	31.0	31.3	31.0	33.1	32.7	31.9	31.3	32.9	32.5	32.7	32.2	31.7	30.5	31.8	31.4	32.7	31.7	31.2	30.6	22.6	28.5

AMMONIA (mg/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	31.1	30.8	40.5	29.7	30.7	30.8	32.2	31.9			31.3	31.7	32.9	33.0	30.8	32.2	31.9	31.6	31.6	30.0			32.5	31.1
2	27.1	27.4	31.4	30.8	30.5	30.8	33.0	31.6	32.8	31.4	31.9	31.1	31.9	31.4	30.8	32.2	31.6	31.1	32.8	30.5	30.8	30.0	32.4	31.4
3	31.9	31.6	30.0	29.4	30.9	30.8	31.6	33.6	33.9	32.2	31.3	30.7	32.5	32.2	31.6	31.4	31.6	30.8	32.7	30.8	31.1	29.4	25.5	24.6
4	30.2	29.4	29.4	27.4	32.0	32.2	34.7	34.2	30.6	31.3	31.6	31.1	32.1	31.1	32.9	33.6	31.3	30.0	30.8	31.6	31.9	30.8	28.6	28.3
Average	30.1	29.8	32.8	29.3	31.0	31.2	32.9	32.8	32.4	31.6	31.5	31.2	32.4	31.9	31.5	32.4	31.6	30.9	32.0	30.7	31.3	30.1	29.8	28.9

AMMONIA (mg/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	29.7	28.8	31.3	30.0			34.9	33.6	31.0	29.7	34.3	33.6	34.6	33.6	33.6	31.6			34.9	34.2	35.2	33.9	32.9	32.5
2	29.7	29.2	28.3	27.4	31.4	30.2	34.2	33.9	34.4	33.3	33.6	31.9	33.6	31.4	32.8	31.9	30.1	29.1	33.0	31.9	34.4	32.8	26.3	26.0
3	28.7	29.1	29.1	28.8	31.9	31.1	33.3	32.8	33.9	32.8	34.4	33.6	32.5	31.9	30.8	30.2	32.2	31.4	31.6	31.1	36.7	36.4	30.0	29.7
4	30.7	29.9	30.1	29.7	31.4	30.2	32.8	32.5	34.2	32.8	34.4	33.0	33.9	33.0	31.1	30.2	33.0	31.9	33.6	31.6	37.0	35.3	31.6	31.4
Average	29.7	29.3	29.7	29.0	31.6	30.5	33.8	33.2	33.4	32.2	34.2	33.0	33.7	32.5	32.1	31.0	31.8	30.8	33.3	32.2	35.8	34.6	30.2	29.9

AMMONIA (mg/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	33.9	33.6	31.6	32.2	30.2	30.5	31.1	30.2	33.9	34.7	32.7	32.2	34.6	33.3	33.2	33.3	34.2	31.4	32.3	30.5	31.5	32.2		
2	32.9	33.9	28.8	29.1	30.8	30.8	28.6	28.0	32.8	32.2	33.3	33.3	34.4	32.5	31.6	31.9	33.9	33.0	33.3	33.3	31.6	31.6	33.0	32.8
3	21.6	21.7	30.8	30.2	32.8	32.5	31.4	31.1	33.3	33.6	32.5	32.8	32.8	32.5	31.4	31.9	31.6	30.0	31.6	29.4	28.8	29.1	35.6	32.8
4	29.1	29.1			32.5	32.8	32.5	31.4	32.8	32.2			32.6	32.5	30.8	30.8	31.9	31.1	32.2	30.9	30.2	31.1	22.1	21.8
Average	29.4	29.6	30.4	30.5	31.6	31.7	30.9	30.2	33.2	33.2	32.8	32.8	33.6	32.7	31.8	32.0	32.9	31.4	32.4	31.0	30.5	31.0	30.2	29.1

AMMONIA (mg/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	27.4	25.5	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	29.7	29.1	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	30.8	29.4	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	33.6	32.2	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
															34.1	32.8								
Average	30.4	29.1	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

AMMONIA (mg/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	35.6	35.0	34.6	34.3	36.6	35.5	36.0	35.5	36.7	37.0	36.2	34.0	37.4	36.8	37.2	38.1	34.4	33.3	36.7	35.1	34.8	34.8	36.5	35.5
2	35.7	35.1	35.1	35.7	36.1	36.0			36.8	35.6	35.7	35.7	37.2	36.8	38.8	38.4	37.6	35.6	51.5	34.9	36.5	35.8	35.3	35.6
3	34.6	34.3	34.1	33.8	33.6	33.6	32.7	32.7	37.1	35.7	36.8	35.2	37.4	35.9	37.6	36.2	36.0	35.4	37.3	33.4	38.4	36.8	34.4	31.4
4	34.6	33.8	34.9	33.1	34.2	34.3	36.0	34.7	38.0	36.1	37.1	37.3	37.6	35.5	36.5	34.8	34.7	35.0	37.0	35.1	38.2	39.5	36.6	34.1
															34.3	32.4			37.5	35.3				
Average	35.1	34.6	34.7	34.2	35.1	34.9	34.9	34.3	37.2	36.1	36.5	35.6	37.4	36.3	36.9	36.0	35.7	34.8	40.0	34.8	37.0	36.7	35.7	34.2

CYANIDE (mg/L) 2007

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

CYANIDE (mg/L) 2008

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

CYANIDE (mg/L) 2009

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

CYANIDE (mg/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	0.002	0.002	0.003	ND	0.003	0.002	0.002	0.002	0.002	0.003	0.003	ND	<0.002	0.002	0.002	0.002	ND	0.002	0.002	ND	ND		
2	ND	0.002	0.003	0.003	0.002	<0.002	ND	0.002	ND	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002	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	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

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	0.002	0.003	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	0.002	0.002	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	0.002	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
															0.003	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

CYANIDE (mg/L) 2012

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

EFFLUENT RADIATION (pCi/L) 2007

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

EFFLUENT RADIATION (pCi/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	1.3	25.3			1.8	21.8	2.3	28.6			1.4	30	0.5	30.3			4.5	28.1	2.7	22.2			6.4	24
2			1.7	22.8					1.3	23.4					6.1	31.3					3.6	30		
3																								
4																								
Average	1.3	25.3	1.7	22.8	1.8	21.8	2.3	28.6	1.3	23.4	1.4	30	0.5	30.3	6.1	31.3	4.5	28.1	2.7	22.2	3.6	30	6.4	24

EFFLUENT RADIATION (pCi/L) 2009

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

EFFLUENT RADIATION (pCi/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	4.9	33.8	9.0	31.5	1.9	32.8	3.2	29.8	2.4	31.8	32.2	32.8	3.3	24.7	3.1	36.5	0.9	32.7	3.2	46.1	3.6	32.7		
2																							-1.8	28.1
3																								
4																								
Average	4.9	33.8	9.0	31.5	1.9	32.8	3.2	29.8	2.4	31.8	32.2	32.8	3.3	24.7	3.1	36.5	0.9	32.7	3.2	46.1	3.6	32.7	-1.8	28.1

EFFLUENT RADIATION (pCi/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	0.3	31.4	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	0.3	31.4	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

EFFLUENT RADIATION (pCi/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta	alpha	beta
1	-1.9	25.3	2.4	33.5	4.3	34.7	2.2	25.2	4.2	29.3	1.6	31.6	0.5	31.4			-0.2	28.4	0.6	29.2			3.2	23.5
2															8.4	24.4					0.2	27.5		
3																								
4																								
Average	-1.9	25.3	2.4	33.5	4.3	34.7	2.2	25.2	4.2	29.3	1.6	31.6	0.5	31.4	8.4	24.4	-0.2	28.4	0.6	29.2	0.2	27.5	3.2	23.5

ALDRIN AND DIELDRIN (ng/L) 2007

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

ALDRIN AND DIELDRIN (ng/L) 2008

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

ALDRIN AND DIELDRIN (ng/L) 2009

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

ALDRIN AND DIELDRIN (ng/L) 2010

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

ALDRIN AND DIELDRIN (ng/L) 2011

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

ALDRIN AND DIELDRIN (ng/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6
2	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	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	2

ENDRIN (ng/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND			ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	93.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ENDRIN (ng/L) 2008

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

ENDRIN (ng/L) 2009

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

ENDRIN (ng/L) 2010

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

ENDRIN (ng/L) 2011

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

ENDRIN (ng/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	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	6	ND

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	16	ND					ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
2	17	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	426.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	15	ND	ND	ND	ND	ND	12.0	ND	ND	ND	ND	ND	ND	14.0	ND	ND	ND	ND	ND	ND	ND	ND	7.0	ND
4	0	ND	ND	ND	ND	ND	7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average	12.0	ND	ND	ND	ND	ND	4.8	ND	2.5	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2008

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

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2009

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

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2010

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

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2011

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

HCH-HEXACHLOROCYCLOHEXANES (ng/L) 2012

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 2007

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 2008

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 2009

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 2010

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 2011

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

CHLORDANE & RELATED COMPOUNDS (ng/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	6.4	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
															ND	ND			4.9	ND				
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	1.9	ND	ND	ND	ND	ND

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2007

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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2008

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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2009

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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2010

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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2011

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

PCBs-POLYCHLORINATED BIPHENYLS (ng/L) 2012

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

DDT AND DERIVATIVES (ng/L) 2007

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND			ND	ND	8.0	ND	24.0	8.0			15.0	ND	ND	ND	18.0	ND	ND	ND	ND	ND		
2	ND	ND	ND	ND	ND	ND	16.0	ND	14.0	ND	17.0	ND	230.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	0.0	ND	15.0	ND	8.0	ND	ND	ND	ND	ND	11.0	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	22.0	4	16.0	ND	12.0	ND	ND	ND	ND	ND	16.0	ND	ND	ND	ND	ND	ND	ND
Average	ND	ND	ND	ND	ND	ND	11.5	1	17.3	2.0	12.3	ND	5.0	ND	ND	ND	11.3	ND	ND	ND	ND	ND	ND	ND

DDT AND DERIVATIVES (ng/L) 2008

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

DDT AND DERIVATIVES (ng/L) 2009

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

DDT AND DERIVATIVES (ng/L) 2010

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

DDT AND DERIVATIVES (ng/L) 2011

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

DDT AND DERIVATIVES (ng/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	2.8	2.4	2.7	ND	2.9	ND	3.8	ND
2	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND	ND	3.7	ND	3.2	ND	2.7	ND	4.8	ND	5.6	ND
3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	8.6	ND	5.8	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	2.4	3.1	ND	ND	ND	10.1	ND	3.6	ND
															ND	ND			4.1	ND				
Average	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	1.1	2.9	0.6	1.9	ND	6.6	ND	4.7	#DIV/0!

TOXAPHENE (ng/L) 2007

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

TOXAPHENE (ng/L) 2008

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

TOXAPHENE (ng/L) 2009

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

TOXAPHENE (ng/L) 2010

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

TOXAPHENE (ng/L) 2011

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

TOXAPHENE (ng/L) 2012

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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2007

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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2008

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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2009

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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2010

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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2011

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

CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2012

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

*Batch did not meet QC criteria; by mistake analyst spiked the method blank and no spike sample availabe for evaluation. Data not included in monthly average calculation.

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2007

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

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2008

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	18.8	15.0	17.4	11.1	18.9	13.3	19.8	11.6			18.4	12.0	16.8	11.5	14.6	11.2	14.3	9.9	15.2	12.3			15.2	13.1
2	16.8	10.7	15.4	9.5	17.9	13.7	23.0	16.7	17.8	15.4	21.9	15.3	21.8	12.8	18.7	13.8	19.4	11.5	11.2	9.1	16.7	11.8	16.3	16.4
3	18.9	13.0	17.2	13.5	20.0	11.3	22.6	15.4	19.5	17.4	27.0	10.1	16.7	8.3	16.5	14.4	12.2	10.4	14.3	10.3	14.2	12.5	4.8	6.1
4	17.7	9.4	17.4	13.0	16.4	12.9	21.1	17.7	19.6	13.3	22.4	12.1	13.6	9.7	19.3	11.3	11.2	8.9	14.4	12.9	16.5	15.0	14.9	13.7
Average	18.1	12.0	16.9	11.8	18.3	12.8	21.6	15.4	19.0	15.4	22.4	12.4	17.2	10.6	17.3	12.7	14.3	10.2	13.8	11.2	15.8	13.1	12.8	12.3

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2009

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	17.2	14.3	15.6	14.3			18.5	17.4	17.6	16.2	19.2	13.7	22.0	15.0	19.2	14.3			22.5	18.2	16.6	13.5	16.4	12.7
2	13.2	11.8	15.7	12.0	14.5	13.4	16.2	17.3	19.4	13.8	18.2	15.3	19.1	18.3	26.7	17.4	22.0	12.7	21.4	13.1	22.6	14.3	15.0	8.6
3	15.0	13.1	16.0	12.6	17.7	15.3	13.5	12.8	20.3	17.5	18.0	13.4	20.4	14.5	19.4	12.0	17.1	11.7	22.6	17.1	20.6	13.8	19.1	13.3
4	17.4	17.5	17.3	13.8	18.6	16.8	19.6	16.0	16.0	14.9	20.5	10.2	20.4	14.1	19.4	14.0	21.4	11.5	23.0	15.0	23.1	19.1	17.9	16.4
Average	15.7	14.2	16.2	13.2	16.9	15.2	17.0	15.9	18.3	15.6	19.0	13.2	20.5	15.5	21.2	14.4	20.2	12.0	22.4	15.9	20.7	15.2	17.1	12.8

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2010

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	20.0	16.4	19.2	15.6	16.1	14.5	18.8	16.2	21.5	16.5	22.4	18.0	21.7	19.7	23.4	19.6	27.5	19.0	21.0	18.6	28.3	13.4		
2	13.4	12.3	14.8	14.6	14.2	12.1	15.4	12.5	16.1	10.3	16.7	17.5	17.4	16.8	14.9	12.8	20.0	18.4	15.3	16.7	18.3	12.5	20.9	20.1
3	5.9	5.5	17.9	15.6	16.4	13.8	15.3	15.9	17.0	15.2	16.5	15.1	19.7	14.7	18.1	16.1	23.8	15.6	12.6	13.7	18.3	14.1	22.4	16.3
4	13.2	12.8			18.6	15.0	15.1	16.8	17.5	14.3			12.9	9.1	16.7	6.4	17.0	17.0	12.7	14.6	22.0	17.0	5.1	6.7
Average	13.1	11.8	17.3	15.3	16.3	13.9	16.2	15.4	18.0	14.1	18.5	16.9	17.9	15.1	18.3	13.7	22.1	17.5	15.4	15.9	21.7	14.3	16.1	14.4

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2011

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	12.4	11.0	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	22.4	11.2	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	20.6	18.4	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	20.2	18.8	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
															21.2	16.3								
Average	18.9	14.9	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

NON-CHLORINATED PHENOLIC COMPOUNDS (ug/L) 2012

	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
Week	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff	Inf	Eff
1	25.8	23.2	27.8	21.3	23.5	21.3	22.9	19.1	20.7	18.5	25.0	23.0	25.3	20.7	21.7	17.7	27.2	10.0	24.4	16.9	21.3	19.2	19.5	23.0
2	21.8	14.8	21.4	23.4	18.7	18.2			20.2	18.2	20.7	15.0	26.7	20.2	27.9	17.4	27.0	17.0	22.0	20.3	21.6	20.2	20.3	20.7
3	25.7	17.2	21.7	16.4	20.4	18.6	16.0	14.2	23.9	19.9	21.4	19.3	29.4	19.6	26.8	21.8	24.6	13.1	23.4	16.7	21.5	25.7	16.9*	17.4*
4	21.0	17.8	20.3	16.1	23.3	18.3	24.9	20.7	20.4	18.1	23.6	19.4	27.6	19.9	24.5	21.3	17.6	12.1	17.1	16.7	22.1	21.3	21.4	17.9
															19.4	13.7			21.5	20.3				
Average	23.6	18.3	22.8	19.3	21.5	19.1	21.3	18.0	21.3	18.7	22.7	19.2	27.3	20.1	24.1	18.4	24.1	13.1	21.7	18.2	21.6	21.6	20.4	20.5

*Batch did not meet QC criteria; by mistake analyst spiked the method blank and no spike sample available for evaluation. Data not included in monthly average calculation.

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