

VI. Annual Pretreatment Program Analyses

2011 Annual Pretreatment Program Analyses  
(QUARTERLY SLUDGE PROJECT)

The Quarterly Sludge Project is part of the Pt. Loma WWTP NPDES (Permit No. CA0107409/Order No. R9-2009-0001) monitoring requirements. The sampling plan is designed so as to provide a “snapshot” of all of the physical and chemical characteristics monitored of the wastewater treatment waste streams for a short interval of time (1-2 days). This is conducted quarterly.

The Quarterly Sludge Project was conducted four times during 2011. Sampling occurred on February 01, May 03, August 02, and October 04. Monthly composite samples of MBC dewatered sludge during the respective calendar months were taken and analyzed for a similar suite of parameters. The tables showing the results of these analyses follow in this section.

Pt. Loma WWTP Influent (PLR) and effluent (PLE) sewage are flow-proportioned 24-hr composites\* taken by a refrigerated automatic continuous autosampler over the 24-hr periods from midnight to midnight of the sampling days. Two days of sampling were required for all of the required samples. The sampling locations are the influent and effluent channels.

Digested and raw sludge are sampled by operations staff and composited by the laboratory. The digested sludge sample is composited from 12 manual grab samples collected at two-hour intervals from Digester 7. The raw sludge sample is composited from 12 manual grabs collected at two hour intervals.

The Metro Biosolids Center (MBC) uses a centrifuge dewatering process, the MBC centrate is the return stream source. This is a 24-hr composite collected with the refrigerated automatic composite sampler currently installed on the MBC combined centrate return stream line. MBC\_NC\_DSL and MBC\_NC\_RSL are the MBC Digested Sludge Line and NCWRP to MBC Raw Sludge Line respectively; MBC\_NC\_DSL composite sample was compiled from grabs collected every 2 hours for the 24 hours of the sampling program each quarter while MBC\_NC\_RSL is a 24-hr composite collected with the refrigerated automatic composite sampler.

Quarterly Sludge Project data for the North City Water Reclamation Plant and the South Bay Water Reclamation Plant are reported in the Pre-treatment monitoring sections of the Annuals submitted under separate cover for each of these facilities.

\* pH, Grease & Oils, temperature, and conductivity are determined from grab samples.

Abbreviations:

PLR	Pt Loma WWTP influent.	RAW COMP	Pt. Loma raw sludge composite
PLE	Pt Loma WWTP effluent.	DIG COMP	Pt. Loma digested sludge composite
MBCDEWCN	MBC dewatered sludge from centrifuges.	MBC_COMBCN	MBC combined centrate from dewatering centrifuges.
MBC_NC_RSL	NCWRP to MBC raw sludge line	MBC_NC_DSL	MBC digested sludge line

A. Point Loma Wastewater Treatment Plant and Metro Biosolids Center Sources

POINT LOMA WASTEWATER TREATMENT PLANT  
Physical/Aggregate Properties Report

2011 Annual

Analyte	MDL	Units	PLR			
			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Conductivity	10	umhos/cm	3060	2870	2840	2950
HEM (Grease & Oil)	1.2	mg/L	29.5	44.2	46.1	44.0
Total Suspended Solids	1.4	mg/L	305	355	515	379
Volatile Suspended Solids	1.6	mg/L	258	322	336	320
Total Alkalinity (bicarbonate)	20	mg/L	282	330	288	290
Total Solids	10	mg/L	1970	1920	2180	1970
Total Volatile Solids	100	mg/L	482	520	628	533
Total Kjeldahl Nitrogen	1.6	mg/L	48	51	56	55
BOD (Biochemical Oxygen Demand)	2	mg/L	261	277	296	243
Chemical Oxygen Demand	18	mg/L	603	575	639	630
pH (grab)		pH Units	7.29	7.39	7.50	7.38
Ammonia-N	.3	mg/L	34.2	35.2	35.8	34.9
Turbidity	.13	NTU	140.0	129.0	137.0	136.0
Total Dissolved Solids	28	mg/L	1690	1580	1580	1600
MBAS (Surfactants)	.03	mg/L	6.80	9.80	8.10	7.80

Analyte	MDL	Units	PLE			
			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Conductivity	10	umhos/cm	3050	2900	2860	2990
HEM (Grease & Oil)	1.2	mg/L	7.3	12.0	9.2	12.6
Total Suspended Solids	1.4	mg/L	42	44	46	51
Volatile Suspended Solids	1.6	mg/L	33	35	37	41
Total Alkalinity (bicarbonate)	20	mg/L	259	310	274	277
Total Solids	10	mg/L	1720	1700	1660	1720
Total Volatile Solids	100	mg/L	268	341	299	290
Total Kjeldahl Nitrogen	1.6	mg/L	40	40	44	46
BOD (Biochemical Oxygen Demand)	2	mg/L	109	100	106	109
Chemical Oxygen Demand	18	mg/L	227	229	227	254
pH (grab)		pH Units	7.22	7.17	7.23	7.26
Ammonia-N	.3	mg/L	32.2	33.0	35.0	34.2
Turbidity	.13	NTU	36.4	36.0	38.0	48.0
Total Dissolved Solids	28	mg/L	1710	1620	1590	1600
MBAS (Surfactants)	.03	mg/L	4.60	8.30	5.10	6.20

Analyte	MDL	Units	RAW COMP			
			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Total Alkalinity (bicarbonate)	20	mg/L	520	283	320	323
Total Solids		Wt%	3.90	3.77	4.37	3.77
Total Volatile Solids		Wt%	79	77	78	78
Total Kjeldahl Nitrogen	.04	Wt%	3.7	3.5	2.8	3.3
pH (composite)		pH Units	5.86	5.72	5.46	5.37

NR= Not required

POINT LOMA WASTEWATER TREATMENT PLANT  
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Analyte	MDL	Units	DIG COMP	DIG COMP	DIG COMP	DIG COMP
			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Total Alkalinity (bicarbonate)	20	mg/L	2660	NR	2080	2170
Total Solids		Wt%	1.89	1.92	2.19	2.17
Total Volatile Solids		Wt%	56	59	60	60
Total Kjeldahl Nitrogen	.04	Wt%	6.7	6.8	5.7	6.2
pH (composite)		pH Units	7.20	7.42	7.19	7.45

MBC

Analyte	MDL	Units	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Conductivity	10	umhos/cm	5740	5650	5480	5740
HEM (Grease & Oil)	1.2	mg/L	6.2	25.5	5.1	34.5
Total Suspended Solids	1.4	mg/L	413	665	380	890
Volatile Suspended Solids	1.6	mg/L	305	500	290	660
Total Alkalinity (bicarbonate)	20	mg/L	1540	1370	1260	1450
Total Solids		Wt%	0.22	0.37	0.33	0.37
Total Volatile Solids		Wt%	39	51	51	47
Total Kjeldahl Nitrogen	1.6	mg/L	402	434	543	446
BOD (Biochemical Oxygen Demand)	2	mg/L	280	591	216	366
Chemical Oxygen Demand	18	mg/L	758	853	656	1310
pH	.08	pH Units	7.89	7.93	7.92	7.88
pH (grab sample)		pH Units	7.76	7.71	7.61	7.76
Ammonia-N	.3	mg/L	362.0	NR	379.0	380.0

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
			28-FEB-2011	31-MAY-2011	31-AUG-2011	31-OCT-2011
Total Solids		Wt%	29.9	28.9	27.7	27.1
Total Volatile Solids		Wt%	59	59	61	58
Total Kjeldahl Nitrogen	.04	Wt%	4.3	4.6	4.6	4.4
pH	.08	pH Units	7.68	7.67	7.73	7.73

Analyte	MDL	Units	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Total Alkalinity (bicarbonate)	20	mg/L	2580	2570	1880	1530
Total Solids		Wt%	2.17	2.40	2.33	2.38
Total Volatile Solids		Wt%	70	72	67	68
Total Kjeldahl Nitrogen	1.6	mg/L	1930	2060	1430	1780
pH	.08	pH Units	7.18	7.26	7.06	7.05

NR= Not required

POINT LOMA WASTEWATER TREATMENT PLANT  
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Analyte	MDL	Units	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL
			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Total Suspended Solids	1.4	mg/L	4900	6600	6450	5300
Volatile Suspended Solids	1.6	mg/L	4300	5800	5300	4400
Total Alkalinity (bicarbonate)	20	mg/L	294	283	220	277
Total Solids		Wt%	0.57	0.72	0.60	0.48
Total Volatile Solids		Wt%	80	77	73	73
Total Kjeldahl Nitrogen	1.6	mg/L	378	292	158	217
pH	.08	pH Units	7.18	6.90	6.72	6.98

NR= Not required

POINT LOMA WASTEWATER TREATMENT PLANT  
 QUARTERLY SLUDGE PROJECT  
 (Metals from Digestion and Ions from Supernatant)

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Source:		PLE	PLE	PLE	PLE
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Sample ID:	MDL Units	P549217	P557924	P564859	P584613
=====					
Aluminum	47 UG/L	312	192	ND	243
Antimony	2.9 UG/L	ND	ND	ND	ND
Arsenic	.4 UG/L	0.99	0.90	0.66	1.38
Barium	.039 UG/L	38	33	28	25
Beryllium	.022 UG/L	0.03	ND	ND	ND
Boron	7 UG/L	159	371	393	416
Cadmium	.53 UG/L	ND	ND	ND	ND
Chromium	1.2 UG/L	ND	1.7	1.6	1.6
Cobalt	.85 UG/L	1.0	ND	ND	ND
Copper	2 UG/L	44	16	14	17
Iron	37 UG/L	3170	2980	2560	2770
Lead	2 UG/L	6	2	ND	ND
Manganese	.24 UG/L	109	108	100	113
Mercury	.0005 UG/L	0.01	0.009	0.005	0.007
Molybdenum	.89 UG/L	6.7	6.9	7.0	6.2
Nickel	.53 UG/L	5	5	ND	8
Selenium	.28 UG/L	1.12	1.00	0.71	ND
Silver	.4 UG/L	ND	ND	ND	ND
Thallium	3.9 UG/L	8	ND	ND	ND
Vanadium	.64 UG/L	1.3	1.2	2.6	<0.6
Zinc	2.5 UG/L	34	23	20	26
=====					
Calcium	.04 MG/L	81	75	69	68
Lithium	.002 MG/L	0.04	0.04	0.03	0.03
Magnesium	.1 MG/L	57	49	50	55
Potassium	.3 MG/L	27	24	26	28
Sodium	1 MG/L	387	326	365	408
=====					
Bromide	.1 MG/L	1.60	1.36	1.51	1.65
Chloride	7 MG/L	634	574	601	655
Fluoride	.05 MG/L	0.93	0.83	0.93	1.05
Nitrate	.04 MG/L	1.42	0.34	1.35	0.67
Ortho Phosphate	.2 MG/L	3.02	4.05	5.52	5.94
Sulfate	9 MG/L	237	213	180	167
=====					
Calcium Hardness	.1 MG/L	203	186	173	170
Magnesium Hardness	.4 MG/L	234	202	206	224
Total Hardness	.4 MG/L	437	388	379	395
=====					
Cyanides, Total	.002 MG/L	0.003	0.003	0.002	ND
Sulfides-Total	.18 MG/L	0.32	ND	0.81	1.02
Total Kjeldahl Nitrogen	1.6 MG/L	40.1	40.2	43.5	45.9

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

MBC\_COMBCN = Combined Sludge Centrate  
 MBC\_NC\_DSL = Combined North City Digested Sludge Line  
 MBC\_NC\_RSL = Combined North City Raw Sludge Line

POINT LOMA WASTEWATER TREATMENT PLANT  
 QUARTERLY SLUDGE PROJECT  
 (Metals from Digestion and Ions from Supernatant)

2011 Annual

Source:		PLR	PLR	PLR	PLR
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Sample ID:	MDL Units	P549223	P557930	P564865	P584619
=====					
Aluminum	47 UG/L	1100	1140	635	990
Antimony	2.9 UG/L	ND	ND	ND	ND
Arsenic	.4 UG/L	1.33	1.20	0.84	1.58
Barium	.039 UG/L	87	98	81	82
Beryllium	.022 UG/L	0.03	ND	ND	ND
Boron	7 UG/L	393	383	390	425
Cadmium	.53 UG/L	ND	ND	ND	ND
Chromium	1.2 UG/L	6.2	6.6	4.4	7.1
Cobalt	.85 UG/L	ND	1.0	ND	ND
Copper	2 UG/L	102	147	108	148
Iron	37 UG/L	6180	8220	7930	10600
Lead	2 UG/L	5	6	2	4
Manganese	.24 UG/L	121	132	113	129
Mercury	.0005 UG/L	0.092	0.12	0.16	0.133
Molybdenum	.89 UG/L	9.6	9.1	9.8	8.9
Nickel	.53 UG/L	9	14	ND	11
Selenium	.28 UG/L	1.18	1.60	1.23	1.25
Silver	.4 UG/L	1.0	0.7	ND	1.5
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	4.6	5.9	5.1	4.4
Zinc	2.5 UG/L	144	203	172	189
=====					
Calcium	.04 MG/L	81	76	67	67
Lithium	.002 MG/L	0.04	0.04	0.03	0.03
Magnesium	.1 MG/L	57	49	48	54
Potassium	.3 MG/L	27	25	25	28
Sodium	1 MG/L	380	317	336	390
=====					
Bromide	.1 MG/L	1.55	1.33	1.50	1.61
Chloride	7 MG/L	609	551	586	625
Fluoride	.05 MG/L	0.94	0.84	0.92	1.05
Nitrate	.04 MG/L	0.21	0.14	0.25	0.25
Ortho Phosphate	.2 MG/L	5.68	5.98	7.07	6.34
Sulfate	9 MG/L	237	218	183	172
=====					
Calcium Hardness	.1 MG/L	203	190	168	167
Magnesium Hardness	.4 MG/L	233	202	199	222
Total Hardness	.4 MG/L	436	392	368	389
=====					
Cyanides, Total	.002 MG/L	0.002	0.002	ND	0.002
Sulfides-Total	.18 MG/L	1.97	2.17	5.18	1.69
Total Kjeldahl Nitrogen	1.6 MG/L	48.0	51.4	55.9	55.4

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 MBC\_NC\_RSL = Combined North City Raw Sludge Line

POINT LOMA WASTEWATER TREATMENT PLANT  
 QUARTERLY SLUDGE PROJECT  
 (Metals from Digestion and Ions from Supernatant)

2011 Annual

Source:		MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Sample ID:	MDL Units	P549234	P557941	P564876	P584630
=====					
Aluminum	47 UG/L	1690	884	641	3160
Antimony	2.9 UG/L	ND	ND	ND	ND
Arsenic	.4 UG/L	4.32	2.40	1.73	3.24
Barium	.039 UG/L	102	115	98	231
Beryllium	.022 UG/L	<0.02	0.06	ND	ND
Boron	7 UG/L	405	358	364	406
Cadmium	.53 UG/L	ND	ND	ND	1.0
Chromium	1.2 UG/L	9.4	7.2	6.3	28.0
Cobalt	.85 UG/L	3.0	4.5	3.6	5.6
Copper	2 UG/L	113	112	73	366
Iron	37 UG/L	30900	28800	24800	50400
Lead	2 UG/L	ND	3	ND	8
Manganese	.24 UG/L	348	268	258	364
Mercury	.5 UG/L	0.110	0.261	0.536	0.342
Molybdenum	.89 UG/L	5.9	5.5	7.4	14.1
Nickel	.53 UG/L	31	28	27	38
Selenium	.28 UG/L	1.85	2.80	1.36	2.40
Silver	.4 UG/L	0.4	ND	ND	3.2
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	2.8	3.7	4.0	15.7
Zinc	2.5 UG/L	122	148	116	533
=====					
Calcium	.04 MG/L	159	84	127	161
Lithium	.002 MG/L	0.04	0.03	0.04	0.03
Magnesium	.1 MG/L	62	35	60	64
Potassium	.3 MG/L	51	29	45	46
Sodium	1 MG/L	287	171	277	331
=====					
Bromide	.1 MG/L	1.09	1.05	1.11	1.40
Chloride	7 MG/L	877	850	1040	1040
Fluoride	.05 MG/L	0.37	0.56	0.52	0.58
Nitrate	.04 MG/L	0.55	0.21	0.18	0.26
Ortho Phosphate	.2 MG/L	8.73	4.67	1.93	2.65
Sulfate	9 MG/L	68	52	27	26
=====					
Calcium Hardness	.1 MG/L	396	209	316	402
Magnesium Hardness	.4 MG/L	255	145	249	265
Total Hardness	.4 MG/L	652	354	565	667
=====					
Cyanides, Total	.002 MG/L	0.006	0.004	0.008	0.006
Sulfides-Total	.18 MG/L	1.51	3.24	19.40	6.93
Total Kjeldahl Nitrogen	1.6 MG/L	402.0	434.0	543.0	446.0

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POINT LOMA WASTEWATER TREATMENT PLANT  
 QUARTERLY SLUDGE PROJECT  
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2011 Annual

Source:		MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Sample ID:	MDL Units	P549288	P557995	P564930	P584684
=====					
Aluminum	47 UG/L	168000	110000	268000	247000
Antimony	2.9 UG/L	39	36	64	33
Arsenic	.4 UG/L	152.00	140.00	163.00	202.00
Barium	.039 UG/L	5650	6430	8670	7250
Beryllium	.022 UG/L	3.97	4.93	3.97	2.19
Boron	7 UG/L	858	972	1110	1110
Cadmium	.53 UG/L	17.4	18.0	24.6	21.7
Chromium	1.2 UG/L	1010.0	1100.0	1600.0	972.0
Cobalt	.85 UG/L	79.9	81.0	66.1	61.0
Copper	2 UG/L	13700	15800	21300	14700
Iron	37 UG/L	1220000	1440000	2460000	1800000
Lead	2 UG/L	250	290	311	245
Manganese	.24 UG/L	5550	5660	8760	7880
Mercury	.5 UG/L	13.500	1.790	3.850	13.000
Molybdenum	.89 UG/L	375.0	364.0	578.0	532.0
Nickel	.53 UG/L	1310	1090	1000	771
Selenium	.28 UG/L	135.00	29.10	166.00	119.00
Silver	.4 UG/L	128.0	114.0	182.0	148.0
Thallium	3.9 UG/L	ND	ND	19	14
Vanadium	.64 UG/L	254.0	287.0	386.0	445.0
Zinc	2.5 UG/L	10900	13800	18100	14800
=====					
Calcium	.04 MG/L	133	137	135	164
Lithium	.002 MG/L	0.05	0.06	0.04	0.04
Magnesium	.1 MG/L	58	46	58	67
Potassium	.3 MG/L	73	48	49	53
Sodium	1 MG/L	194	155	188	184
=====					
Bromide	.1 MG/L	0.70	0.69	0.63	0.65
Chloride	7 MG/L	1050	1200	1430	1560
Fluoride	.05 MG/L	0.48	0.56	0.64	0.73
Nitrate	.04 MG/L	0.41	0.20	0.20	0.22
Ortho Phosphate	.2 MG/L	4.11	1.46	ND	ND
Sulfate	9 MG/L	34	31	26	27
=====					
Cyanides, Total	.002 MG/L	0.014	0.013	0.006	0.013
Sulfides-Total	.18 MG/L	294.00	373.00	518.00	474.00
Sulfides-Reactive	11 MG/KG	95	104	152	145
Total Kjeldahl Nitrogen	1.6 MG/L	1930.0	2060.0	1430.0	1780.0

ND= Not Detected  
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POINT LOMA WASTEWATER TREATMENT PLANT  
 QUARTERLY SLUDGE PROJECT  
 (Metals from Digestion and Ions from Supernatant)

2011 Annual

Source:		MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Sample ID:	MDL Units	P549286	P557993	P564928	P584682
=====					
Aluminum	47 UG/L	26500	4670	24000	20900
Antimony	2.9 UG/L	8	6	11	ND
Arsenic	.4 UG/L	27.90	19.70	17.50	25.50
Barium	.039 UG/L	758	255	718	663
Beryllium	.022 UG/L	0.14	0.32	ND	0.08
Boron	7 UG/L	490	452	423	526
Cadmium	.53 UG/L	3.1	ND	2.1	1.4
Chromium	1.2 UG/L	69.6	26.0	94.0	99.4
Cobalt	.85 UG/L	4.9	2.0	3.4	5.5
Copper	2 UG/L	1880	503	1430	1430
Iron	37 UG/L	78000	42300	134000	105000
Lead	2 UG/L	30	7	19	26
Manganese	.24 UG/L	839	517	805	911
Mercury	.5 UG/L	4.790	2.820	1.020	1.890
Molybdenum	.89 UG/L	40.5	10.2	44.7	47.0
Nickel	.53 UG/L	77	33	67	74
Selenium	.28 UG/L	12.00	10.20	12.40	10.70
Silver	.4 UG/L	17.5	3.4	16.5	35.1
Thallium	3.9 UG/L	ND	ND	5	ND
Vanadium	.64 UG/L	26.5	10.4	20.3	43.8
Zinc	2.5 UG/L	1780	578	1790	1640
=====					
Calcium	.04 MG/L	82	76	68	57
Lithium	.002 MG/L	0.04	0.04	0.03	0.03
Magnesium	.1 MG/L	41	36	32	30
Potassium	.3 MG/L	31	26	23	24
Sodium	1 MG/L	178	173	163	164
=====					
Bromide	.1 MG/L	0.50	0.53	0.48	0.48
Chloride	7 MG/L	399	441	403	314
Fluoride	.05 MG/L	0.41	0.59	0.54	0.73
Nitrate	.04 MG/L	0.24	0.12	0.18	1.99
Ortho Phosphate	.2 MG/L	74.80	24.80	11.40	19.00
Sulfate	9 MG/L	66	47	29	27
=====					
Cyanides, Total	.002 MG/L	0.004	0.003	0.003	0.003
Sulfides-Total	.18 MG/L	22.40	39.00	51.00	27.90
Sulfides-Reactive	11 MG/KG	16	16	35	33
Total Kjeldahl Nitrogen	1.6 MG/L	378.0	292.0	158.0	217.0

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

MBC\_COMBCN = Combined Sludge Centrate  
 MBC\_NC\_DSL = Combined North City Digested Sludge Line  
 MBC\_NC\_RSL = Combined North City Raw Sludge Line

POINT LOMA WASTEWATER TREATMENT PLANT  
 QUARTERLY SLUDGE PROJECT  
 (Metals from Digestion and Ions from Supernatant)

2011 Annual

Source:		RAW COMP	RAW COMP	RAW COMP	RAW COMP
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Sample ID:	MDL Units	P549259	P557966	P564901	P584655
=====					
Aluminum	4 MG/KG	3140	2330	2110	2190
Antimony	.5 MG/KG	1.3	1.3	ND	1.3
Arsenic	.68 MG/KG	1.62	1.21	1.64	1.96
Barium	.05 MG/KG	66.1	156.0	166.0	147.0
Beryllium	.02 MG/KG	0.09	ND	0.03	0.03
Boron	.7 MG/KG	18.1	23.2	17.1	14.8
Cadmium	.1 MG/KG	0.71	0.63	ND	0.75
Chromium	.3 MG/KG	18.7	22.3	20.3	29.6
Cobalt	.2 MG/KG	0.5	0.9	2.1	1.6
Copper	.4 MG/KG	294	314	312	325
Iron	20 MG/KG	33500	41200	41200	36700
Lead	2 MG/KG	7.0	6.2	12.2	7.0
Manganese	.2 MG/KG	128	179	124	91
Mercury	.4 MG/KG	0.73	2.98	ND	0.64
Molybdenum	.1 MG/KG	6.2	12.2	9.7	9.6
Nickel	.3 MG/KG	15	17	14	25
Selenium	.47 MG/KG	2.44	1.61	2.66	2.18
Silver	.07 MG/KG	2.8	2.7	3.4	3.5
Thallium	1 MG/KG	ND	ND	ND	ND
Vanadium	.2 MG/KG	12.1	11.0	22.5	17.8
Zinc	.5 MG/KG	380	350	429	383
=====					
Bromide	3 MG/KG	32.8	31.6	28.6	28.6
Chloride	180 MG/KG	30600	55300	35400	40900
Fluoride	1.3 MG/KG	13.7	8.2	ND	ND
Nitrate	1 MG/KG	7.10	3.93	5.26	ND
Ortho Phosphate	4 MG/KG	ND	50	311	668
Sulfate	220 MG/KG	918	889	595	673
=====					
Cyanides, Total	.1 MG/KG	3.20	5.19	4.04	2.60
Cyanide, Releaseable	.018 MG/KG	ND	ND	ND	ND
Sulfides-Total	2170 MG/KG	13000	11400	29600	17300
Sulfides-Reactive	11 MG/KG	76	60	178	132
Total Kjeldahl Nitrogen	.04 WT%	3.71	3.51	2.84	3.30

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

RAW COMP = Point Loma Raw Sludge Composite  
 DIG COMP = Point Loma Digested Sludge Composite  
 MBCDEWCN = MBC Dewatered Sludge Composite

POINT LOMA WASTEWATER TREATMENT PLANT  
 QUARTERLY SLUDGE PROJECT  
 (Metals from Digestion and Ions from Supernatant)

2011 Annual

Source:		DIG COMP	DIG COMP	DIG COMP	DIG COMP
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Sample ID:	MDL Units	P549273	P557980	P564915	P584669
=====					
Aluminum	4 MG/KG	7380	5480	4200	4640
Antimony	.5 MG/KG	1.5	2.0	ND	2.3
Arsenic	.68 MG/KG	5.09	3.82	2.51	3.23
Barium	.05 MG/KG	134.0	234.0	305.0	87.4
Beryllium	.02 MG/KG	0.15	0.12	0.09	0.05
Boron	.7 MG/KG	28.4	35.7	25.7	39.5
Cadmium	.1 MG/KG	1.38	1.49	ND	1.53
Chromium	.3 MG/KG	52.2	48.6	42.2	49.7
Cobalt	.2 MG/KG	2.3	2.4	3.9	3.1
Copper	.4 MG/KG	560	619	610	613
Iron	20 MG/KG	67400	73600	69800	73700
Lead	2 MG/KG	13.9	15.4	17.5	13.7
Manganese	.2 MG/KG	248	277	210	238
Mercury	.4 MG/KG	0.65	0.48	<0.40	0.66
Molybdenum	.1 MG/KG	11.9	14.6	16.8	19.1
Nickel	.3 MG/KG	52	46	25	38
Selenium	.47 MG/KG	4.56	4.20	4.46	3.57
Silver	.07 MG/KG	5.0	4.8	5.6	7.0
Thallium	1 MG/KG	ND	ND	ND	ND
Vanadium	.2 MG/KG	26.6	26.3	35.1	32.4
Zinc	.5 MG/KG	630	679	765	669
=====					
Bromide	3 MG/KG	95.2	81.0	79.0	105.0
Chloride	180 MG/KG	61700	63800	71600	76300
Fluoride	1.3 MG/KG	23.3	29.1	34.3	39.6
Nitrate	1 MG/KG	16.80	12.40	11.00	95.30
Ortho Phosphate	4 MG/KG	108	108	70	ND
Sulfate	220 MG/KG	1590	1670	1160	1190
=====					
Cyanides, Total	.1 MG/KG	10.20	8.72	9.24	6.90
Cyanide, Releaseable	.018 MG/KG	ND	ND	ND	ND
Sulfides-Total	2170 MG/KG	32900	36100	57600	38700
Sulfides-Reactive	11 MG/KG	99	114	179	147
Total Kjeldahl Nitrogen	.04 WT%	6.72	6.78	5.66	6.19

ND= Not Detected  
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 NS= Not Sampled  
 NR= Not Required

RAW COMP = Point Loma Raw Sludge Composite  
 DIG COMP = Point Loma Digested Sludge Composite  
 MBCDEWCN = MBC Dewatered Sludge Composite

POINT LOMA WASTEWATER TREATMENT PLANT  
 QUARTERLY SLUDGE PROJECT  
 (Metals from Digestion and Ions from Supernatant)

2011 Annual

Source:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:		28-FEB-2011	31-MAY-2011	31-AUG-2011	31-OCT-2011
Sample ID:	MDL Units	P554957	P566778	P579594	P591381
=====					
Aluminum	4 MG/KG	7550	5750	5260	5890
Antimony	.5 MG/KG	2.1	2.0	2.7	2.6
Arsenic	.68 MG/KG	5.04	5.50	3.04	5.43
Barium	.05 MG/KG	52.0	364.0	94.8	116.0
Beryllium	.02 MG/KG	0.19	0.11	0.10	0.09
Boron	.7 MG/KG	16.8	23.1	20.5	27.1
Cadmium	.1 MG/KG	1.35	1.58	1.60	1.70
Chromium	.3 MG/KG	55.0	58.0	47.6	59.7
Cobalt	.2 MG/KG	2.1	2.0	2.9	3.3
Copper	.4 MG/KG	598	757	667	739
Iron	20 MG/KG	73200	90100	91000	85300
Lead	2 MG/KG	14.7	13.8	14.4	17.8
Manganese	.2 MG/KG	269	316	269	288
Mercury	.4 MG/KG	0.68	0.88	1.32	0.86
Molybdenum	.1 MG/KG	13.2	18.3	21.3	22.0
Nickel	.3 MG/KG	48	46	38	45
Selenium	.47 MG/KG	5.55	6.43	6.00	5.78
Silver	.07 MG/KG	5.5	5.9	7.4	8.2
Thallium	1 MG/KG	ND	ND	ND	ND
Vanadium	.2 MG/KG	25.1	28.0	36.0	36.4
Zinc	.5 MG/KG	779	736	893	887
=====					
Cyanides, Total	.1 MG/KG	2.59	4.24	2.34	2.10
Cyanide, Releaseable	.018 MG/KG	0.03	ND	ND	ND
Sulfides-Total	2170 MG/KG	7210	12400	14200	21900
Sulfides-Reactive	11 MG/KG	ND	ND	<11	38
Total Kjeldahl Nitrogen	.04 WT%	4.26	4.55	4.58	4.37

ND= Not Detected  
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 NS= Not Sampled  
 NR= Not Required

RAW COMP = Point Loma Raw Sludge Composite  
 DIG COMP = Point Loma Digested Sludge Composite  
 MBCDEWCN = MBC Dewatered Sludge Composite

POINT LOMA WASTEWATER TREATMENT PLANT  
 QUARTERLY SLUDGE PROJECT  
 Radioactivity

Analyzed by: TestAmerica Laboratories Richland  
 Method: EPA 00-02 or EPA 900.0

2011 Annual

Source	Sample Date	Sample ID	Gross Alpha Radiation pCi/L	Gross Beta Radiation pCi/L
PLE	01-FEB-2011	P549217	0.3±3.0	31.4±8.1
PLE	03-MAY-2011	P557924	0.0±3.6	33.9±8.2
PLE	02-AUG-2011	P564859	2.4±4.0	27.1±7.6
PLE	04-OCT-2011	P584613	3.4±5.1	28.7±7.1
PLR	01-FEB-2011	P549223	5.6±4.2	35.4±8.4
PLR	03-MAY-2011	P557930	2.9±2.8	30.0±8.6
PLR	02-AUG-2011	P564865	3.8±3.8	31.7±7.5
PLR	04-OCT-2011	P584619	0.7±5.4	28.6±6.2
MBC_COMBCN	01-FEB-2011	P549234	4.9±4.3	54.1±9.7
MBC_COMBCN	03-MAY-2011	P557941	3.4±2.3	49.8±11.0
MBC_COMBCN	02-AUG-2011	P564876	13.1±6.1	55.7±11.0
MBC_COMBCN	04-OCT-2011	P584630	15.7±11.0	57.9±11.0

Units in picocuries per Liter (pCi/L)

Source	Sample Date	Sample ID	Gross Alpha Radiation pCi/kg	Gross Beta Radiation pCi/kg
MBCDEWCN	28-FEB-2011	P554957	6540±4200	10300±18500
MBCDEWCN	31-MAY-2011	P566778	6630±46000	9930±3250
MBCDEWCN	31-AUG-2011	P579594	5030±34500	9270±3150
MBCDEWCN	31-OCT-2011	P591381	4970±4200	8220±3400

Units in picocuries per Kilogram (pCi/Kg)

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

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER  
Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

Annual 2011

Source:			PLE	PLE	PLE	PLE	PLR	PLR
Date:			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011
Analyte	MDL	Units	P549217	P557924	P564859	P584613	P549223	P557930
=====								
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	23.0	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	8.0	4.0
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND	23.0	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA	NA	NA
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
=====								
Heptachlors	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Endosulfans	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Polychlorinated biphenyls	4000	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlordane + related cmpds.	6	NG/L	0.0	0.0	0.0	0.0	31.0	4.0
DDT and derivatives	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Hexachlorocyclohexanes	7	NG/L	0.0	0.0	0.0	0.0	23.0	0.0
Aldrin + Dieldrin	7	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlorinated Hydrocarbons	4000	NG/L	0.0	0.0	0.0	0.0	54.0	4.0

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

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER  
Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

Annual 2011

Source:			PLR	PLR	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:			02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Analyte	MDL	Units	P564865	P584619	P549234	P557941	P564876	P584630
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	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
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Heptachlors	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Endosulfans	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Polychlorinated biphenyls	4000	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlordane + related cmpds.	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
DDT and derivatives	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Hexachlorocyclohexanes	7	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Aldrin + Dieldrin	7	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlorinated Hydrocarbons	4000	NG/L	0.0	0.0	0.0	0.0	0.0	0.0

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

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER  
Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

Annual 2011

Source:			MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
Date:			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Analyte	MDL	Units	P549288	P557995	P564930	P584684
=====						
Aldrin	7	NG/L	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND
Gamma (trans) Chlordane	4	NG/L	ND	ND	ND	ND
Alpha Chlordene		NG/L	NA	NA	NA	NA
Gamma Chlordene		NG/L	NA	NA	NA	NA
Cis Nonachlor	3	NG/L	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND
=====						
Heptachlors	8	NG/L	0.0	0.0	0.0	0.0
Endosulfans	6	NG/L	0.0	0.0	0.0	0.0
Polychlorinated biphenyls	4000	NG/L	0.0	0.0	0.0	0.0
Chlordane + related cmpds.	6	NG/L	0.0	0.0	0.0	0.0
DDT and derivatives	8	NG/L	0.0	0.0	0.0	0.0
Hexachlorocyclohexanes	7	NG/L	0.0	0.0	0.0	0.0
Aldrin + Dieldrin	7	NG/L	0.0	0.0	0.0	0.0
Chlorinated Hydrocarbons	4000	NG/L	0.0	0.0	0.0	0.0

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

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER  
Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

Annual 2011

Source:			MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	RAW COMP	RAW COMP
Date:			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011
Analyte	MDL	Units	P549286	P557993	P564928	P584682	P549259	P557966
=====								
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	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
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND	ND	320
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
=====								
Heptachlors	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Endosulfans	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Polychlorinated biphenyls	4000	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlordane + related cmpds.	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
DDT and derivatives	8	NG/L	0.0	0.0	0.0	0.0	0.0	320
Hexachlorocyclohexanes	7	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Aldrin + Dieldrin	7	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlorinated Hydrocarbons	4000	NG/L	0.0	0.0	0.0	0.0	0.0	320

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

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER  
Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

Annual 2011

Source:			RAW COMP	RAW COMP	DIG COMP	DIG COMP	DIG COMP	DIG COMP
Date:			02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Analyte	MDL	Units	P564901	P584655	P549273	P557980	P564915	P584669
Aldrin	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Alpha isomer	7	NG/L	ND	ND	ND	ND	ND	ND
BHC, Beta isomer	3	NG/L	ND	ND	ND	ND	ND	ND
BHC, Delta isomer	3	NG/L	ND	ND	ND	ND	ND	ND
BHC, Gamma isomer	5	NG/L	ND	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	3	NG/L	ND	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	4	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
Cis Nonachlor	3	NG/L	ND	ND	ND	ND	ND	ND
Dieldrin	3	NG/L	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	6	NG/L	ND	ND	ND	ND	ND	ND
Alpha Endosulfan	4	NG/L	ND	ND	ND	ND	ND	ND
Beta Endosulfan	2	NG/L	ND	ND	ND	ND	ND	ND
Endrin	2	NG/L	ND	ND	ND	ND	ND	ND
Endrin aldehyde	9	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor	8	NG/L	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	4	NG/L	ND	ND	ND	ND	ND	ND
Methoxychlor	10	NG/L	ND	ND	ND	ND	ND	ND
Mirex	10	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDD	4	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDE	5	NG/L	ND	ND	ND	ND	ND	ND
o,p-DDT	3	NG/L	ND	ND	ND	ND	ND	ND
Oxychlordane	6	NG/L	ND	ND	ND	ND	ND	ND
PCB 1016	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1221	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1232	360	NG/L	ND	ND	ND	ND	ND	ND
PCB 1242	4000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1248	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1254	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1260	2000	NG/L	ND	ND	ND	ND	ND	ND
PCB 1262	930	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDD	3	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDE	4	NG/L	ND	ND	ND	ND	ND	ND
p,p-DDT	8	NG/L	ND	ND	ND	ND	ND	ND
Toxaphene	330	NG/L	ND	ND	ND	ND	ND	ND
Trans Nonachlor	5	NG/L	ND	ND	ND	ND	ND	ND
Heptachlors	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Endosulfans	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Polychlorinated biphenyls	4000	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlordane + related cmpds.	6	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
DDT and derivatives	8	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Hexachlorocyclohexanes	7	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Aldrin + Dieldrin	7	NG/L	0.0	0.0	0.0	0.0	0.0	0.0
Chlorinated Hydrocarbons	4000	NG/L	0.0	0.0	0.0	0.0	0.0	0.0

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

METROBIOSOLIDS CENTER  
 SLUDGE PROJECT - ANNUAL SUMMARY  
 Chlorinated Pesticide Analysis

Annual 2011

Source:			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:			31-JAN-2011	28-FEB-2011	31-MAR-2011	30-APR-2011	31-MAY-2011
Analyte	MDL	Units	P551608	P554957	P559212	P563098	P566778
=====							
Aldrin	71000	NG/KG	ND	ND	ND	ND	ND
Dieldrin	35000	NG/KG	ND	ND	ND	ND	ND
BHC, Alpha isomer	28000	NG/KG	ND	ND	ND	ND	ND
BHC, Beta isomer	32000	NG/KG	ND	ND	ND	ND	ND
BHC, Gamma isomer	18000	NG/KG	ND	ND	ND	ND	ND
BHC, Delta isomer	28000	NG/KG	ND	ND	ND	ND	ND
p,p-DDD	18000	NG/KG	ND	ND	ND	ND	ND
p,p-DDE	28000	NG/KG	ND	ND	ND	ND	ND
p,p-DDT	35000	NG/KG	ND	ND	ND	ND	ND
o,p-DDD	28000	NG/KG	ND	ND	ND	ND	ND
o,p-DDE	52000	NG/KG	ND	ND	ND	ND	ND
o,p-DDT	71000	NG/KG	ND	ND	ND	ND	ND
Heptachlor	16000	NG/KG	ND	ND	ND	ND	ND
Heptachlor epoxide	28000	NG/KG	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	13000	NG/KG	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	48000	NG/KG	52000	55500	ND	ND	66500
Alpha Chlordene		NG/KG	NA	NA	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA	NA	NA
Oxychlordane	28000	NG/KG	ND	ND	ND	ND	ND
Trans Nonachlor	18000	NG/KG	41000	ND	ND	ND	ND
Cis Nonachlor	52000	NG/KG	ND	ND	ND	ND	ND
Alpha Endosulfan	18000	NG/KG	ND	ND	ND	ND	ND
Beta Endosulfan	28000	NG/KG	ND	ND	ND	ND	ND
Endosulfan Sulfate	45000	NG/KG	ND	ND	ND	ND	ND
Endrin aldehyde	52000	NG/KG	ND	ND	ND	ND	ND
Toxaphene	130000	NG/KG	ND	ND	ND	ND	ND
Mirex	18000	NG/KG	ND	ND	ND	ND	ND
Methoxychlor	71000	NG/KG	ND	ND	ND	ND	ND
PCB 1016	260000	NG/KG	ND	ND	ND	ND	ND
PCB 1221	580000	NG/KG	ND	ND	ND	ND	ND
PCB 1232	220000	NG/KG	ND	ND	ND	ND	ND
PCB 1242		NG/KG	ND	ND	ND	ND	ND
PCB 1248	310000	NG/KG	ND	ND	ND	ND	ND
PCB 1254	130000	NG/KG	ND	ND	ND	ND	ND
PCB 1260	86000	NG/KG	ND	ND	ND	ND	ND
PCB 1262		NG/KG	ND	ND	ND	ND	ND
=====							
Aldrin + Dieldrin	71000	NG/KG	0	0	0	0	0
Hexachlorocyclohexanes	32000	NG/KG	0	0	0	0	0
DDT and derivatives	71000	NG/KG	0	0	0	0	0
Chlordane + related cmpds.	48000	NG/KG	52000	55500	0	0	66500
Polychlorinated biphenyls	580000	NG/KG	0	0	0	0	0
=====							
Chlorinated Hydrocarbons	580000	NG/KG	93000	55500	0	0	66500

ND= not detected  
 NA= not analyzed

METROBIOSOLIDS CENTER  
 SLUDGE PROJECT - ANNUAL SUMMARY  
 Chlorinated Pesticide Analysis

Annual 2011

Source:			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:			30-JUN-2011	31-JUL-2011	31-AUG-2011	30-SEP-2011	31-OCT-2011
Analyte	MDL	Units	P570762	P575132	P579594	P586866	P591381
=====	=====	=====	=====	=====	=====	=====	=====
Aldrin	71000	NG/KG	ND	ND	ND	ND	ND
Dieldrin	35000	NG/KG	ND	ND	ND	ND	ND
BHC, Alpha isomer	28000	NG/KG	ND	ND	ND	ND	ND
BHC, Beta isomer	32000	NG/KG	ND	ND	ND	ND	ND
BHC, Gamma isomer	18000	NG/KG	ND	ND	ND	ND	ND
BHC, Delta isomer	28000	NG/KG	ND	ND	ND	ND	ND
p,p-DDD	18000	NG/KG	ND	ND	ND	ND	ND
p,p-DDE	28000	NG/KG	ND	ND	ND	ND	ND
p,p-DDT	35000	NG/KG	ND	ND	ND	ND	ND
o,p-DDD	28000	NG/KG	ND	ND	ND	ND	ND
o,p-DDE	52000	NG/KG	ND	ND	ND	ND	ND
o,p-DDT	71000	NG/KG	ND	ND	ND	ND	ND
Heptachlor	16000	NG/KG	ND	ND	ND	ND	ND
Heptachlor epoxide	28000	NG/KG	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	13000	NG/KG	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	48000	NG/KG	ND	ND	ND	ND	ND
Alpha Chlordene		NG/KG	NA	NA	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA	NA	NA
Oxychlordane	28000	NG/KG	ND	ND	ND	ND	ND
Trans Nonachlor	18000	NG/KG	ND	ND	ND	ND	ND
Cis Nonachlor	52000	NG/KG	ND	ND	ND	ND	ND
Alpha Endosulfan	18000	NG/KG	ND	ND	ND	ND	ND
Beta Endosulfan	28000	NG/KG	ND	ND	ND	ND	ND
Endosulfan Sulfate	45000	NG/KG	ND	ND	ND	ND	ND
Endrin aldehyde	52000	NG/KG	ND	ND	ND	ND	ND
Toxaphene	130000	NG/KG	ND	ND	ND	ND	ND
Mirex	18000	NG/KG	ND	ND	ND	ND	ND
Methoxychlor	71000	NG/KG	ND	ND	ND	ND	ND
PCB 1016	260000	NG/KG	ND	ND	ND	ND	ND
PCB 1221	580000	NG/KG	ND	ND	ND	ND	ND
PCB 1232	220000	NG/KG	ND	ND	ND	ND	ND
PCB 1242		NG/KG	ND	ND	ND	ND	ND
PCB 1248	310000	NG/KG	ND	ND	ND	ND	ND
PCB 1254	130000	NG/KG	ND	ND	ND	ND	ND
PCB 1260	86000	NG/KG	ND	ND	ND	ND	ND
PCB 1262		NG/KG	ND	ND	ND	ND	ND
=====	=====	=====	=====	=====	=====	=====	=====
Aldrin + Dieldrin	71000	NG/KG	0	0	0	0	0
Hexachlorocyclohexanes	32000	NG/KG	0	0	0	0	0
DDT and derivatives	71000	NG/KG	0	0	0	0	0
Chlordane + related cmpds.	48000	NG/KG	0	0	0	0	0
Polychlorinated biphenyls	580000	NG/KG	0	0	0	0	0
=====	=====	=====	=====	=====	=====	=====	=====
Chlorinated Hydrocarbons	580000	NG/KG	0	0	0	0	0

ND= not detected  
 NA= not analyzed

METROBIOSOLIDS CENTER  
 SLUDGE PROJECT - ANNUAL SUMMARY  
 Chlorinated Pesticide Analysis

Annual 2011

Source:			MBCDEWCN	MBCDEWCN	
Date:			30-NOV-2011	31-DEC-2011	Annual
Analyte	MDL	Units	P597126	P601035	Average
=====	=====	=====	=====	=====	=====
Aldrin	71000	NG/KG	ND	ND	ND
Dieldrin	35000	NG/KG	ND	ND	ND
BHC, Alpha isomer	28000	NG/KG	ND	ND	ND
BHC, Beta isomer	32000	NG/KG	ND	ND	ND
BHC, Gamma isomer	18000	NG/KG	ND	ND	ND
BHC, Delta isomer	28000	NG/KG	ND	ND	ND
p,p-DDD	18000	NG/KG	ND	ND	ND
p,p-DDE	28000	NG/KG	ND	ND	ND
p,p-DDT	35000	NG/KG	ND	ND	ND
o,p-DDD	28000	NG/KG	ND	ND	ND
o,p-DDE	52000	NG/KG	ND	ND	ND
o,p-DDT	71000	NG/KG	ND	ND	ND
Heptachlor	16000	NG/KG	ND	ND	ND
Heptachlor epoxide	28000	NG/KG	ND	ND	ND
Alpha (cis) Chlordane	13000	NG/KG	ND	ND	ND
Gamma (trans) Chlordane	48000	NG/KG	ND	ND	14500
Alpha Chlordene		NG/KG	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA
Oxychlordane	28000	NG/KG	ND	ND	ND
Trans Nonachlor	18000	NG/KG	ND	ND	3417
Cis Nonachlor	52000	NG/KG	ND	ND	ND
Alpha Endosulfan	18000	NG/KG	ND	ND	ND
Beta Endosulfan	28000	NG/KG	ND	ND	ND
Endosulfan Sulfate	45000	NG/KG	ND	ND	ND
Endrin aldehyde	52000	NG/KG	ND	ND	ND
Toxaphene	130000	NG/KG	ND	ND	ND
Mirex	18000	NG/KG	ND	ND	ND
Methoxychlor	71000	NG/KG	ND	ND	ND
PCB 1016	260000	NG/KG	ND	ND	ND
PCB 1221	580000	NG/KG	ND	ND	ND
PCB 1232	220000	NG/KG	ND	ND	ND
PCB 1242		NG/KG	ND	ND	ND
PCB 1248	310000	NG/KG	ND	ND	ND
PCB 1254	130000	NG/KG	ND	ND	ND
PCB 1260	86000	NG/KG	ND	ND	ND
PCB 1262		NG/KG	ND	ND	ND
=====	=====	=====	=====	=====	=====
Aldrin + Dieldrin	71000	NG/KG	0	0	0
Hexachlorocyclohexanes	32000	NG/KG	0	0	0
DDT and derivatives	71000	NG/KG	0	0	0
Chlordane + related cmpds.	48000	NG/KG	0	0	14500
Polychlorinated biphenyls	580000	NG/KG	0	0	0
=====	=====	=====	=====	=====	=====
Chlorinated Hydrocarbons	580000	NG/KG	0	0	17917

ND= not detected  
 NA= not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER  
Organophosphorus Pesticides

Annual 2011

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

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

ND=not detected

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER  
Organophosphorus Pesticides

Annual 2011

Source:		MBC_COMBCN	MBC_COMBCN	MBC_NC_DSL	MBC_NC_DSL
Date:		03-MAY-2011	04-OCT-2011	03-MAY-2011	04-OCT-2011
Analyte	MDL Units	P557941	P584630	P557995	P584684
Demeton O	.15 UG/L	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00	0.00	0.00
Demeton -O, -S	.15 UG/L	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.00	0.00	0.00

Source:		MBC_NC_RSL	MBC_NC_RSL	RAW COMP	RAW COMP
Date:		03-MAY-2011	04-OCT-2011	03-MAY-2011	04-OCT-2011
Analyte	MDL Units	P557993	P584682	P557966	P584655
Demeton O	.15 UG/L	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00	0.00	0.00
Demeton -O, -S	.15 UG/L	0.00	0.00	0.00	0.00
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.00	0.00	0.00

ND=not detected

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER  
Organophosphorus Pesticides

Annual 2011

Source:		DIG COMP	DIG COMP
Date:		03-MAY-2011	04-OCT-2011
Analyte	MDL Units	P557980	P584669
=====			
Demeton O	.15 UG/L	ND	ND
Demeton S	.08 UG/L	ND	ND
Diazinon	.03 UG/L	ND	ND
Guthion	.15 UG/L	ND	ND
Malathion	.03 UG/L	ND	ND
Parathion	.03 UG/L	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND
Coumaphos	.15 UG/L	ND	ND
Dichlorvos	.05 UG/L	ND	ND
Dimethoate	.04 UG/L	ND	ND
Disulfoton	.02 UG/L	ND	ND
Stirophos	.03 UG/L	ND	ND
=====			
Thiophosphorus Pesticides	.15 UG/L	0.00	0.00
Demeton -O, -S	.15 UG/L	0.00	0.00
=====			
Total Organophosphorus Pesticides	.15 UG/L	0.00	0.00

ND=not detected

METROBIOSOLIDS CENTER  
 ORGANOPHOSPHORUS PESTICIDES

Annual 2011

Source:			MBCDEWCN	MBCDEWCN
Date:			31-MAY-2011	31-OCT-2011
Analyte	MDL	Units	P566778	P591381
Demeton O	67	UG/KG	ND	ND
Demeton S	27	UG/KG	ND	ND
Diazinon		UG/KG	ND	ND
Guthion	33	UG/KG	ND	ND
Malathion	20	UG/KG	ND	ND
Parathion	20	UG/KG	ND	ND
Chlorpyrifos		UG/KG	71.6	89.3
Coumaphos	33	UG/KG	ND	ND
Dichlorvos	17	UG/KG	ND	ND
Dimethoate	27	UG/KG	ND	ND
Disulfoton	20	UG/KG	ND	ND
Stirophos	20	UG/KG	ND	ND
Thiophosphorus Pesticides	33	UG/KG	0.0	0.0
Demeton -O, -S	67	UG/KG	0.0	0.0
Total Organophosphorus Pesticides	67	UG/KG	71.6	89.3

ND=not detected

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER  
 SLUDGE PROJECT  
 Tributyl Tin (Sewage)

Annual 2011

Source:	PLE	PLE	PLE	PLE	PLR	PLR	PLR
Date:	01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011	02-AUG-2011
Analyte	P549217	P557924	P564859	P584613	P549223	P557930	P564865
=====	=====	=====	=====	=====	=====	=====	=====
Monobutyltin	ND	ND	ND	ND	ND	ND	ND
Tributyltin	ND	ND	ND	ND	ND	ND	ND

Source:	PLR	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBCDEWCN	MBCDEWCN
Date:	04-OCT-2011	01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011	31-MAY-2011	31-OCT-2011
Analyte	P584619	P549234	P557941	P564876	P584630	P566778	P591381
=====	=====	=====	=====	=====	=====	=====	=====
Monobutyltin	ND	ND	ND	ND	ND	ND	ND
Tributyltin	ND	ND	ND	ND	ND	ND	ND

ND= not detected

POINT LOMA WASTEWATER TREATMENT PLANT  
Herbicide Analysis

Annual 2011

Source:			MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:			28-FEB-2011	31-AUG-2011	31-OCT-2011
Sample ID	MDL	Units	P554957	P579594	P591381
=====			=====	=====	=====
2,4-Dichlorophenoxyacetic acid	.0667	MG/KG	ND	ND	ND
2,4,5-TP (Silvex)	.017	MG/KG	ND	ND	ND

Note: No data is reported for the first half of the year, sample was not reported due to the external laboratory analyzing the sample suspended operations.

ND=not detected

POINT LOMA WASTEWATER TREATMENT PLANT  
 PRIORITY POLLUTANT ANALYSIS-ACID EXTRACTABLE COMPOUNDS, EPA Method 625

Annual 2011

Source:			PLE	PLE	PLE	PLE	PLR	PLR
Date:			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011
Analyte	MDL	Units	P549217	P557924	P564859	P584613	P549223	P557930
2-Chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	2.01	UG/L	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	ND	ND
Phenol	1.76	UG/L	17.9	21.9	16.6	18.5	20.4	23.9
2,4,6-Trichlorophenol	1.65	UG/L	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
Total Non-Chlorinated Phenols	2.16	UG/L	17.9	21.9	16.6	18.5	20.4	23.9
Phenols	2.16	UG/L	17.9	21.9	16.6	18.5	20.4	23.9
2-Methylphenol	2.15	UG/L	ND	ND	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11	UG/L	44.3	47.9	32.7	34.4	74.3	57.1
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND

Source:			PLR	PLR	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:			02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Analyte	MDL	Units	P564865	P584619	P549234	P557941	P564876	P584630
2-Chlorophenol	1.32	UG/L	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67	UG/L	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.01	UG/L	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	2.01	UG/L	ND	ND	12.9	12.4	ND	ND
2,4-Dinitrophenol	2.16	UG/L	ND	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52	UG/L	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1.55	UG/L	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1.14	UG/L	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12	UG/L	ND	ND	ND	ND	ND	ND
Phenol	1.76	UG/L	26.9	19.5	15.3	2.9	4.0	6.3
2,4,6-Trichlorophenol	1.65	UG/L	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
Total Non-Chlorinated Phenols	2.16	UG/L	26.9	19.5	28.2	15.3	4.0	6.3
Phenols	2.16	UG/L	26.9	19.5	28.2	15.3	4.0	6.3
2-Methylphenol	2.15	UG/L	ND	ND	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)		UG/L	NA	NA	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11	UG/L	57.7	33.6	ND	ND	ND	ND
2,4,5-Trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
 PRIORITY POLLUTANT ANALYSIS-ACID EXTRACTABLE COMPOUNDS, EPA Method 625

Annual 2011

Source:		RAW COMP	RAW COMP	RAW COMP	RAW COMP	DIG COMP	DIG COMP
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011
Analyte	MDL Units	P549259	P557966	P564901	P584655	P549273	P557980
2-Chlorophenol	1.32 UG/L	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.01 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	2.01 UG/L	ND	ND	ND	ND	26.3	27.8
2,4-Dinitrophenol	2.16 UG/L	ND	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52 UG/L	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1.55 UG/L	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1.14 UG/L	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12 UG/L	ND	ND	ND	ND	ND	ND
Phenol	1.76 UG/L	51.0	84.2	31.4	63.0	2.2	2.4
2,4,6-Trichlorophenol	1.65 UG/L	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
Total Non-Chlorinated Phenols	2.16 UG/L	51.0	84.2	31.4	63.0	28.5	30.2
Phenols	2.16 UG/L	51.0	84.2	31.4	63.0	28.5	30.2
2-Methylphenol	2.15 UG/L	ND	ND	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)	UG/L	NA	NA	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11 UG/L	501.0	417.0	245.0	274.0	6.7	5.8
2,4,5-Trichlorophenol	1.66 UG/L	ND	ND	ND	ND	ND	ND

Source:		DIG COMP	DIG COMP	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
Date:		02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Analyte	MDL Units	P564915	P584669	P549288	P557995	P564930	P584684
2-Chlorophenol	1.32 UG/L	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1.01 UG/L	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	2.01 UG/L	ND	21.3	37.3	42.3	23.0	20.8
2,4-Dinitrophenol	2.16 UG/L	ND	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52 UG/L	ND	ND	ND	ND	ND	ND
2-Nitrophenol	1.55 UG/L	ND	ND	ND	ND	ND	ND
4-Nitrophenol	1.14 UG/L	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1.12 UG/L	ND	ND	ND	ND	ND	ND
Phenol	1.76 UG/L	2.5	2.0	2.0	2.1	ND	ND
2,4,6-Trichlorophenol	1.65 UG/L	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
Total Non-Chlorinated Phenols	2.16 UG/L	2.5	23.3	39.3	44.4	23.0	20.8
Phenols	2.16 UG/L	2.5	23.3	39.3	44.4	23.0	20.8
2-Methylphenol	2.15 UG/L	ND	ND	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)	UG/L	NA	NA	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11 UG/L	3.6	3.6	5.7	10.6	6.9	4.9
2,4,5-Trichlorophenol	1.66 UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
 PRIORITY POLLUTANT ANALYSIS-ACID EXTRACTABLE COMPOUNDS, EPA Method 625

Annual 2011

Source:		MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Analyte	MDL Units	P549286	P557993	P564928	P584682
2-Chlorophenol	1.32 UG/L	ND	ND	ND	ND
4-Chloro-3-methylphenol	1.67 UG/L	ND	ND	ND	ND
2,4-Dichlorophenol	1.01 UG/L	ND	ND	ND	ND
2,4-Dimethylphenol	2.01 UG/L	ND	ND	ND	ND
2,4-Dinitrophenol	2.16 UG/L	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	1.52 UG/L	ND	ND	ND	ND
2-Nitrophenol	1.55 UG/L	ND	ND	ND	ND
4-Nitrophenol	1.14 UG/L	ND	ND	ND	ND
Pentachlorophenol	1.12 UG/L	ND	ND	ND	ND
Phenol	1.76 UG/L	29.3	8.2	10.3	9.2
2,4,6-Trichlorophenol	1.65 UG/L	ND	ND	ND	ND
<b>Total Chlorinated Phenols</b>	<b>1.67 UG/L</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total Non-Chlorinated Phenols</b>	<b>2.16 UG/L</b>	<b>29.3</b>	<b>8.2</b>	<b>10.3</b>	<b>9.2</b>
<b>Phenols</b>	<b>2.16 UG/L</b>	<b>29.3</b>	<b>8.2</b>	<b>10.3</b>	<b>9.2</b>
2-Methylphenol	2.15 UG/L	ND	ND	ND	ND
3-Methylphenol(4-MP is unresolved)	UG/L	NA	NA	NA	NA
4-Methylphenol(3-MP is unresolved)	2.11 UG/L	175.0	202.0	191.0	82.3
2,4,5-Trichlorophenol	1.66 UG/L	ND	ND	ND	ND

Source:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	
Date:		28-FEB-2011	31-MAY-2011	31-AUG-2011	31-OCT-2011	
Analyte	MDL Units	P554957	P566778	P579594	P591381	Average
2-Chlorophenol	330 UG/KG	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	330 UG/KG	ND	ND	ND	ND	ND
2,4-Dichlorophenol	330 UG/KG	ND	ND	ND	ND	ND
2,4-Dimethylphenol	330 UG/KG	ND	ND	ND	ND	ND
2,4-Dinitrophenol	330 UG/KG	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	800 UG/KG	ND	ND	ND	ND	ND
2-Nitrophenol	330 UG/KG	ND	ND	ND	ND	ND
4-Nitrophenol	800 UG/KG	ND	ND	ND	ND	ND
Pentachlorophenol	800 UG/KG	ND	ND	ND	ND	ND
Phenol	330 UG/KG	7980	5490	3350	2390	4803
2,4,6-Trichlorophenol	330 UG/KG	ND	ND	ND	ND	ND
<b>Total Chlorinated Phenols</b>	<b>800 UG/KG</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total Non-Chlorinated Phenols</b>	<b>800 UG/KG</b>	<b>10410</b>	<b>8490</b>	<b>6432</b>	<b>3129</b>	<b>7115</b>
<b>Phenols</b>	<b>800 UG/KG</b>	<b>10410</b>	<b>8490</b>	<b>6432</b>	<b>3129</b>	<b>7115</b>
2-Methylphenol	330 UG/KG	1170	1220	2150	ND	1135
4-Methylphenol(3-MP is unresolved)	330 UG/KG	1260	1780	932	739	1178
2,4,5-Trichlorophenol	800 UG/KG	ND	ND	ND	ND	ND
<b>Phenols average</b>	<b>800 UG/KG</b>	<b>725</b>	<b>499</b>	<b>305</b>	<b>217</b>	<b>437</b>

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Priority Pollutants Purgeable Compounds, EPA Method 624

Annual 2011

Source:		PLR	PLR	PLR	PLR	PLE	PLE
Date:		01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011
Analyte	MDL Units	P549226	P557933	P564868	P584622	P549220	P557927
Acrolein	1.3 UG/L	ND	ND	ND	ND	ND	ND
Acrylonitrile	.7 UG/L	ND	ND	ND	ND	ND	ND
Benzene	.4 UG/L	ND	ND	ND	ND	ND	ND
Bromodichloromethane	.5 UG/L	0.6	ND	ND	ND	0.8	ND
Bromoform	.5 UG/L	ND	ND	ND	ND	ND	ND
Bromomethane	.7 UG/L	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	.4 UG/L	ND	ND	ND	ND	ND	ND
Chlorobenzene	.4 UG/L	ND	ND	ND	ND	ND	ND
Chloroethane	.9 UG/L	ND	ND	ND	ND	ND	ND
Chloroform	.2 UG/L	2.7	2.7	3.4	2.5	4.2	4.0
Chloromethane	.5 UG/L	ND	ND	ND	ND	2.5	5.4
Dibromochloromethane	.6 UG/L	ND	ND	ND	ND	<0.6	ND
1,2-Dichlorobenzene	.4 UG/L	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	.5 UG/L	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	.4 UG/L	0.6	0.7	0.7*	0.9^	0.5	0.6
1,1-Dichloroethane	.4 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	.4 UG/L	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	.6 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	.3 UG/L	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3 UG/L	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	.5 UG/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	.3 UG/L	0.7	ND	0.4	<0.3	0.3	ND
Methylene chloride	.3 UG/L	1.2	1.3	4.0	1.6	1.4	1.5
1,1,2,2-Tetrachloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.1 UG/L	ND	ND	ND	ND	ND	ND
Toluene	.4 UG/L	0.9	0.8	0.8	0.7	1.6	1.3
1,1,1-Trichloroethane	.4 UG/L	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
Trichloroethene	.7 UG/L	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3 UG/L	ND	ND	ND	ND	ND	ND
Vinyl chloride	.4 UG/L	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7 UG/L	0.6	0.0	0.0	0.0	3.3	5.4
Total Dichlorobenzenes	.5 UG/L	0.0	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	1.3 UG/L	6.7	5.5	8.6	4.8	11.3	12.8
Acetone	4.5 UG/L	361.0	456.0	494.0	1760.0	522.0	446.0
Allyl chloride	.6 UG/L	ND	ND	ND	ND	ND	ND
Benzyl chloride	1.1 UG/L	ND	ND	ND	ND	ND	ND
2-Butanone	6.3 UG/L	6.7	8.0	9.2	9.8	7.0	7.9
Carbon disulfide	.6 UG/L	1.8	1.9	2.9	1.9	2.1	2.7
Chloroprene	.4 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	.3 UG/L	ND	ND	ND	ND	ND	ND
Isopropylbenzene	.3 UG/L	ND	ND	ND	ND	ND	ND
Methyl Iodide	.6 UG/L	ND	ND	ND	ND	ND	ND
Methyl methacrylate	.8 UG/L	ND	ND	ND	ND	ND	ND
2-Nitropropane	12 UG/L	ND	ND	ND	ND	ND	ND
ortho-xylene	.4 UG/L	1.1	ND	ND	ND	ND	ND
Styrene	.3 UG/L	0.5	ND	0.3	0.9	ND	ND
1,2,4-Trichlorobenzene	.7 UG/L	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6 UG/L	2.4	0.7	<0.6	ND	0.7	0.9
2-Chloroethylvinyl ether	1.1 UG/L	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3 UG/L	ND	ND	ND	ND	ND	ND

\* = Value of the blank in this batch was 0.52 Ug/L, not in the calculation of average.

^ = Value of the blank in this batch was 0.55 Ug/L, not in the calculation of average.

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Priority Pollutants Purgeable Compounds, EPA Method 624

Annual 2011

Source:		PLE	PLE	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:		02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Analyte	MDL Units	P564862	P584616	P549237	P557944	P564879	P584633
Acrolein	1.3 UG/L	ND	ND	ND	ND	ND	ND
Acrylonitrile	.7 UG/L	ND	ND	ND	ND	ND	ND
Benzene	.4 UG/L	ND	ND	ND	ND	ND	ND
Bromodichloromethane	.5 UG/L	ND	ND	ND	ND	ND	ND
Bromoform	.5 UG/L	ND	ND	ND	ND	ND	ND
Bromomethane	.7 UG/L	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	.4 UG/L	ND	ND	ND	ND	ND	ND
Chlorobenzene	.4 UG/L	ND	ND	ND	ND	ND	ND
Chloroethane	.9 UG/L	<0.9	ND	ND	ND	ND	ND
Chloroform	.2 UG/L	5.0	4.8	4.6	2.3	2.8	2.0
Chloromethane	.5 UG/L	5.8	5.4	ND	ND	ND	ND
Dibromochloromethane	.6 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	.4 UG/L	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	.5 UG/L	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	.4 UG/L	0.8	0.9^	0.5	0.8	0.6^	0.5
1,1-Dichloroethane	.4 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	.4 UG/L	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	.6 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	.3 UG/L	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	.3 UG/L	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	.5 UG/L	ND	ND	ND	ND	ND	ND
Ethylbenzene	.3 UG/L	0.5	0.4	ND	0.4	0.6	0.7
Methylene chloride	.3 UG/L	2.2	1.7	1.4	1.4	1.9	1.8
1,1,2,2-Tetrachloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.1 UG/L	ND	ND	ND	ND	ND	ND
Toluene	.4 UG/L	2.2	0.8	1.0	1.4	2.0	2.3
1,1,1-Trichloroethane	.4 UG/L	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
Trichloroethene	.7 UG/L	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	.3 UG/L	ND	ND	ND	ND	ND	ND
Vinyl chloride	.4 UG/L	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Cmpnds	.7 UG/L	5.8	5.4	0.0	0.0	0.0	0.0
Total Dichlorobenzenes	.5 UG/L	0.0	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	1.3 UG/L	16.5	13.1	7.5	6.3	7.3	7.3
Acetone	4.5 UG/L	568.0	1820.0	304.0	136.0	168.0	231.0
Allyl chloride	.6 UG/L	ND	ND	ND	ND	ND	ND
Benzyl chloride	1.1 UG/L	ND	ND	ND	ND	ND	ND
2-Butanone	6.3 UG/L	12.1	9.2	10.8	9.0	14.0	10.6
Carbon disulfide	.6 UG/L	3.6	3.2	ND	1.1	1.7	1.0
Chloroprene	.4 UG/L	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	.3 UG/L	ND	ND	ND	ND	ND	ND
Isopropylbenzene	.3 UG/L	ND	ND	ND	ND	ND	ND
Methyl Iodide	.6 UG/L	ND	ND	ND	ND	ND	ND
Methyl methacrylate	.8 UG/L	ND	ND	ND	ND	ND	ND
2-Nitropropane	12 UG/L	ND	ND	ND	ND	ND	ND
ortho-xylene	.4 UG/L	0.9	0.6	ND	ND	ND	ND
Styrene	.3 UG/L	ND	0.5	ND	ND	ND	0.3
1,2,4-Trichlorobenzene	.7 UG/L	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6 UG/L	1.8	1.0	ND	ND	ND	ND
2-Chloroethylvinyl ether	1.1 UG/L	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	1.3 UG/L	ND	ND	ND	ND	ND	ND

^ = Value of the blank in this batch was 0.55 Ug/L, not in the calculation of average.

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Priority Pollutants Purgeable Compounds, EPA Method 624

Annual 2011

Source:			DIG COMP	DIG COMP	DIG COMP	DIG COMP	RAW COMP	RAW COMP
Date:			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011
Analyte	MDL	Units	P549273	P557980	P564915	P584669	P549259	P557966
=====								
Acrolein	6.4	UG/KG	ND	ND	ND	ND	ND	ND
Acrylonitrile	3.9	UG/KG	ND	ND	ND	ND	ND	ND
Benzene	2.1	UG/KG	ND	ND	ND	ND	ND	ND
Bromodichloromethane	2.2	UG/KG	ND	ND	ND	ND	ND	ND
Bromoform	2.4	UG/KG	ND	ND	ND	ND	ND	ND
Bromomethane	6.9	UG/KG	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	3	UG/KG	ND	ND	ND	ND	ND	ND
Chlorobenzene	1	UG/KG	ND	ND	ND	ND	ND	ND
Chloroethane	3.6	UG/KG	ND	ND	ND	ND	ND	ND
Chloroform	2.3	UG/KG	ND	ND	ND	ND	ND	ND
Chloromethane	3.4	UG/KG	ND	ND	ND	759.0	ND	ND
Dibromochloromethane	2.4	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	1.5	UG/KG	ND	36.7	ND	34.7	ND	35.3
1,3-Dichlorobenzene	1.8	UG/KG	36.9	21.6	ND	28.5	15.9	23.5
1,4-Dichlorobenzene	1.5	UG/KG	524	471	144	275	344	333
1,1-Dichloroethane	1.9	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	3.6	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	3.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	2.6	UG/KG	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	2.5	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	2.1	UG/KG	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.4	UG/KG	332	282	438	549	134	73.0
Methylene chloride	3.5	UG/KG	1180	91.2	ND	3420000	472	390
1,1,2,2-Tetrachloroethane	5.9	UG/KG	ND	ND	ND	ND	ND	ND
Tetrachloroethene	2.8	UG/KG	ND	ND	ND	ND	ND	ND
Toluene	1.2	UG/KG	153	115	616	120	605	341
1,1,1-Trichloroethane	3.2	UG/KG	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	2.8	UG/KG	ND	ND	ND	ND	ND	ND
Trichloroethene	2.6	UG/KG	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	2.2	UG/KG	ND	ND	ND	ND	ND	ND
Vinyl chloride	4.8	UG/KG	ND	ND	ND	ND	ND	ND
=====								
Halomethane Purgeable Cmpnds	6.9	UG/KG	0.0	0.0	0.0	759	0.0	0.0
Total Dichlorobenzenes	1.8	UG/KG	36.9	58.3	0.0	63.2	15.9	58.8
=====								
Purgeable Compounds	6.9	UG/KG	2226	1018	1198	3421766	1571	1196
=====								
Acetone	31.4	UG/KG	4930	7050	10500	5070	16200	61000
Allyl chloride	3.6	UG/KG	ND	ND	ND	ND	ND	ND
Benzyl chloride	4.3	UG/KG	ND	ND	ND	ND	ND	ND
2-Butanone	36.3	UG/KG	2410	3200	4440	2580	2910	10100
Carbon disulfide	4.7	UG/KG	298	415	779	302	142	160
Chloroprene	3.1	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	2.5	UG/KG	ND	ND	ND	ND	ND	ND
Isopropylbenzene	1.3	UG/KG	179	189	71.6	71.3	254	191
Methyl Iodide	3.8	UG/KG	ND	ND	ND	ND	ND	ND
Methyl methacrylate	2.4	UG/KG	ND	ND	ND	ND	ND	ND
2-Nitropropane	45.8	UG/KG	ND	ND	ND	ND	ND	ND
ortho-xylene	1.9	UG/KG	ND	83.1	113	79.7	165	111
Styrene	1.7	UG/KG	ND	ND	125	185	317	230
1,2,4-Trichlorobenzene	2.5	UG/KG	ND	ND	ND	ND	ND	ND
meta,para xylenes	4.2	UG/KG	200	157	184	130	430	259
2-Chloroethylvinyl ether	5.5	UG/KG	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone	9.7	UG/KG	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Priority Pollutants Purgeable Compounds, EPA Method 624

Annual 2011

Source:			RAW COMP	RAW COMP
Date:			02-AUG-2011	04-OCT-2011
Analyte	MDL	Units	P564901	P584655
=====				
Acrolein	6.4	UG/KG	ND	ND
Acrylonitrile	3.9	UG/KG	ND	ND
Benzene	2.1	UG/KG	ND	ND
Bromodichloromethane	2.2	UG/KG	ND	ND
Bromoform	2.4	UG/KG	ND	ND
Bromomethane	6.9	UG/KG	ND	ND
Carbon tetrachloride	3	UG/KG	ND	ND
Chlorobenzene	1	UG/KG	ND	ND
Chloroethane	3.6	UG/KG	ND	ND
Chloroform	2.3	UG/KG	ND	84.4
Chloromethane	3.4	UG/KG	ND	54.1
Dibromochloromethane	2.4	UG/KG	ND	ND
1,2-Dichlorobenzene	1.5	UG/KG	ND	33.5
1,3-Dichlorobenzene	1.8	UG/KG	ND	26.5
1,4-Dichlorobenzene	1.5	UG/KG	164	226
1,1-Dichloroethane	1.9	UG/KG	ND	ND
1,2-Dichloroethane	3.6	UG/KG	ND	ND
1,1-Dichloroethene	5	UG/KG	ND	ND
trans-1,2-dichloroethene	3.5	UG/KG	ND	ND
1,2-Dichloropropane	2.6	UG/KG	ND	ND
cis-1,3-dichloropropene	2.5	UG/KG	ND	ND
trans-1,3-dichloropropene	2.1	UG/KG	ND	ND
Ethylbenzene	1.4	UG/KG	174	152
Methylene chloride	3.5	UG/KG	71.6	2540000
1,1,2,2-Tetrachloroethane	5.9	UG/KG	ND	ND
Tetrachloroethene	2.8	UG/KG	ND	49.4
Toluene	1.2	UG/KG	320	233
1,1,1-Trichloroethane	3.2	UG/KG	ND	ND
1,1,2-Trichloroethane	2.8	UG/KG	ND	ND
Trichloroethene	2.6	UG/KG	ND	ND
Trichlorofluoromethane	2.2	UG/KG	ND	ND
Vinyl chloride	4.8	UG/KG	ND	ND
=====				
Halomethane Purgeable Cmpnds	6.9	UG/KG	0.0	54.1
Total Dichlorobenzenes	1.8	UG/KG	0.0	60.0
=====				
Purgeable Compounds	6.9	UG/KG	730	2540859
=====				
Acetone	31.4	UG/KG	21700	18900
Allyl chloride	3.6	UG/KG	ND	ND
Benzyl chloride	4.3	UG/KG	ND	ND
2-Butanone	36.3	UG/KG	4390	3180
Carbon disulfide	4.7	UG/KG	308	145
Chloroprene	3.1	UG/KG	ND	ND
1,2-Dibromoethane	2.5	UG/KG	ND	ND
Isopropylbenzene	1.3	UG/KG	96.7	83.5
Methyl Iodide	3.8	UG/KG	ND	ND
Methyl methacrylate	2.4	UG/KG	ND	ND
2-Nitropropane	45.8	UG/KG	ND	ND
ortho-xylene	1.9	UG/KG	204	275
Styrene	1.7	UG/KG	274	492
1,2,4-Trichlorobenzene	2.5	UG/KG	ND	ND
meta,para xylenes	4.2	UG/KG	441	548
2-Chloroethylvinyl ether	5.5	UG/KG	ND	ND
4-Methyl-2-pentanone	9.7	UG/KG	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Purgeables

Annual 2011

Source:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:		31-JAN-2011	28-FEB-2011	31-MAR-2011	30-APR-2011	31-MAY-2011	30-JUN-2011
Analyte	MDL Units	P551608	P554957	P559212	P563098	P566778	P570762
Acrolein	6.4 UG/KG	ND	ND	ND	ND	ND	ND
Acrylonitrile	3.9 UG/KG	ND	ND	ND	ND	ND	ND
Benzene	96.5 UG/KG	3.8	3.0	3.8	ND	ND	ND
Bromodichloromethane	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Bromoform	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Bromomethane	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Chlorobenzene	96.5 UG/KG	ND	ND	2.7	ND	ND	ND
Chloroethane	241 UG/KG	ND	ND	ND	ND	ND	ND
Chloroform	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Chloromethane	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Dibromochloromethane	96.5 UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	96.5 UG/KG	17.5	22.1	20.1	17.6	14.1	15.0
1,3-Dichlorobenzene	96.5 UG/KG	ND	4.2	4.2	<1.8	ND	ND
1,4-Dichlorobenzene	96.5 UG/KG	202	210	218	239	179	186
Dichlorodifluoromethane	96.5 UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	96.5 UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	96.5 UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	96.1 UG/KG	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	96.5 UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	96.5 UG/KG	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	96.5 UG/KG	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Ethylbenzene	96.5 UG/KG	140	231	171	180	138	229
Methylene chloride	483 UG/KG	142.0	12.2	12.1	ND	84.9	6.3
1,1,2,2-Tetrachloroethane	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Tetrachloroethene	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Toluene	96.5 UG/KG	62.5	54.6	59.7	55.9	44.3	56.2
1,1,1-Trichloroethane	96.5 UG/KG	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	241 UG/KG	ND	ND	ND	ND	ND	ND
Trichloroethene	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	96.1 UG/KG	ND	ND	ND	ND	ND	ND
Vinyl chloride	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Compounds	96.5 UG/KG	0.0	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	483 UG/KG	567.8	537.1	491.6	492.5	460.3	492.5
Acetone	2410 UG/KG	28600	23100	23600	28000	22400	22600
Allyl chloride	3.6 UG/KG	ND	ND	ND	ND	ND	ND
Benzyl chloride	4.3 UG/KG	ND	ND	ND	ND	ND	ND
2-Butanone	2410 UG/KG	6660	5160	3700	5520	5640	5090
Carbon disulfide	241 UG/KG	186.0	131.0	94.2	117.0	134.0	105.0
Chloroprene	3.1 UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	96.5 UG/KG	ND	ND	ND	ND	ND	ND
Isopropylbenzene	96.5 UG/KG	101.0	73.6	79.0	74.0	77.0	21.8
Methyl Iodide	3.8 UG/KG	ND	ND	ND	ND	ND	ND
Methyl methacrylate	2.4 UG/KG	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	96.5 UG/KG	ND	ND	ND	ND	ND	ND
2-Nitropropane	45.8 UG/KG	ND	ND	ND	ND	ND	ND
ortho-xylene	241 UG/KG	56.4	48.7	41.4	41.4	42.4	48.9
Styrene	96.5 UG/KG	82.4	46.6	63.0	43.6	29.8	46.9
1,2,4-Trichlorobenzene	96.5 UG/KG	ND	ND	ND	ND	ND	14.8
meta,para xylenes	241 UG/KG	117.0	97.3	76.6	80.1	78.1	86.3
2-Chloroethylvinyl ether	5.5 UG/KG	ND	ND	ND	ND	ND	ND
Dibromofluoromethane	UG/KG	788	835	862	769	767	935
4-Methyl-2-pentanone	2410 UG/KG	28.7	23.3	31.5	18.6	14.4	30.4

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Purgeables

Annual 2011

Source:			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:			31-JUL-2011	31-AUG-2011	30-SEP-2011	31-OCT-2011	30-NOV-2011	31-DEC-2011
Analyte	MDL	Units	P575132	P579594	P586866	P591381	P597126	P601035
Acrolein	6.4	UG/KG	ND	ND	ND	ND	ND	NA
Acrylonitrile	3.9	UG/KG	ND	ND	ND	ND	ND	NA
Benzene	96.5	UG/KG	ND	ND	ND	ND	9.9	ND
Bromodichloromethane	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Bromoform	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Bromomethane	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Chlorobenzene	96.5	UG/KG	ND	4.4	ND	ND	ND	ND
Chloroethane	241	UG/KG	ND	ND	ND	ND	ND	ND
Chloroform	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Chloromethane	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Dibromochloromethane	96.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	96.5	UG/KG	20.1	36.4	21.4	18.3	17.3	ND
1,3-Dichlorobenzene	96.5	UG/KG	ND	4.3	ND	ND	ND	ND
1,4-Dichlorobenzene	96.5	UG/KG	156	109	130	104	120	ND
Dichlorodifluoromethane	96.5	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	96.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	96.5	UG/KG	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	96.1	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,2-dichloroethene	96.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	96.5	UG/KG	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	96.5	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Ethylbenzene	96.5	UG/KG	251	248	386	698	521	ND
Methylene chloride	483	UG/KG	5.0	16.4	10.2*	<3.5	5.8	ND
1,1,2,2-Tetrachloroethane	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Tetrachloroethene	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Toluene	96.5	UG/KG	59.8	49.8	70.0	60.0	64.2	ND
1,1,1-Trichloroethane	96.5	UG/KG	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	241	UG/KG	ND	ND	ND	ND	ND	ND
Trichloroethene	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	96.1	UG/KG	ND	ND	ND	ND	ND	ND
Vinyl chloride	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Halomethane Purgeable Compounds	96.5	UG/KG	0.0	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	483	UG/KG	491.9	468.3	607.4	880.3	738.2	0.0
Acetone	2410	UG/KG	16700	13800	19800	17700	19200	19400
Allyl chloride	3.6	UG/KG	ND	ND	ND	ND	ND	NA
Benzyl chloride	4.3	UG/KG	ND	ND	ND	ND	ND	NA
2-Butanone	2410	UG/KG	5600	2870	4320	4120	4240	ND
Carbon disulfide	241	UG/KG	170.0	105.0	78.4	101.0	105.0	ND
Chloroprene	3.1	UG/KG	ND	ND	ND	ND	ND	NA
1,2-Dibromoethane	96.5	UG/KG	ND	ND	ND	ND	ND	ND
Isopropylbenzene	96.5	UG/KG	25.9	21.5	29.3	33.5	35.9	ND
Methyl Iodide	3.8	UG/KG	ND	ND	ND	ND	ND	NA
Methyl methacrylate	2.4	UG/KG	ND	ND	ND	ND	ND	NA
Methyl tert-butyl ether	96.5	UG/KG	ND	ND	ND	ND	ND	ND
2-Nitropropane	45.8	UG/KG	ND	ND	ND	ND	ND	NA
ortho-xylene	241	UG/KG	56.4	45.2	57.7	60.5	68.9	ND
Styrene	96.5	UG/KG	48.1	48.1	57.6	126.0	66.2	ND
1,2,4-Trichlorobenzene	96.5	UG/KG	15.3	21.0	9.0	7.0	ND	ND
meta,para xylenes	241	UG/KG	98.6	73.7	102.0	102.0	126.0	ND
2-Chloroethylvinyl ether	5.5	UG/KG	ND	ND	ND	ND	ND	NA
Dibromofluoromethane		UG/KG	1010	948	937	905	847	95.0
4-Methyl-2-pentanone	2410	UG/KG	35.8	16.2	15.9	11.5	50.5	ND

^ = Value of the blank in this batch was 3.77 Ug/L, not in the calculation of average.

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Purgeables

Annual 2011

Analyte	MDL	Units	Average
Acrolein	6.4	UG/KG	ND
Acrylonitrile	3.9	UG/KG	ND
Benzene	96.5	UG/KG	1.7
Bromodichloromethane	96.5	UG/KG	ND
Bromoform	96.5	UG/KG	ND
Bromomethane	96.5	UG/KG	ND
Carbon tetrachloride	96.5	UG/KG	ND
Chlorobenzene	96.5	UG/KG	0.6
Chloroethane	241	UG/KG	ND
Chloroform	96.5	UG/KG	ND
Chloromethane	96.5	UG/KG	ND
Dibromochloromethane	96.5	UG/KG	ND
1,2-Dichlorobenzene	96.5	UG/KG	18.3
1,3-Dichlorobenzene	96.5	UG/KG	1.1
1,4-Dichlorobenzene	96.5	UG/KG	154.4
Dichlorodifluoromethane	96.5	UG/KG	ND
1,1-Dichloroethane	96.5	UG/KG	ND
1,2-Dichloroethane	96.5	UG/KG	ND
1,1-Dichloroethene	96.1	UG/KG	ND
trans-1,2-dichloroethene	96.5	UG/KG	ND
1,2-Dichloropropane	96.5	UG/KG	ND
cis-1,3-dichloropropene	96.5	UG/KG	ND
trans-1,3-dichloropropene	96.5	UG/KG	ND
Ethylbenzene	96.5	UG/KG	266.1
Methylene chloride	483	UG/KG	25.9
1,1,2,2-Tetrachloroethane	96.5	UG/KG	ND
Tetrachloroethene	96.5	UG/KG	ND
Toluene	96.5	UG/KG	53.1
1,1,1-Trichloroethane	96.5	UG/KG	ND
1,1,2-Trichloroethane	241	UG/KG	ND
Trichloroethene	96.5	UG/KG	ND
Trichlorofluoromethane	96.1	UG/KG	ND
Vinyl chloride	96.5	UG/KG	ND
Halomethane Purgeable Compounds	96.5	UG/KG	0.0
Purgeable Compounds	483	UG/KG	519.0
Acetone	2410	UG/KG	21241.7
Allyl chloride	3.6	UG/KG	ND
Benzyl chloride	4.3	UG/KG	ND
2-Butanone	2410	UG/KG	4410
Carbon disulfide	241	UG/KG	110.6
Chloroprene	3.1	UG/KG	ND
1,2-Dibromoethane	96.5	UG/KG	ND
Isopropylbenzene	96.5	UG/KG	47.7
Methyl Iodide	3.8	UG/KG	ND
Methyl methacrylate	2.4	UG/KG	ND
Methyl tert-butyl ether	96.5	UG/KG	ND
2-Nitropropane	45.8	UG/KG	ND
ortho-xylene	241	UG/KG	47.3
Styrene	96.5	UG/KG	54.9
1,2,4-Trichlorobenzene	96.5	UG/KG	5.6
meta,para xylenes	241	UG/KG	86.5
2-Chloroethylvinyl ether	5.5	UG/KG	ND
Dibromofluoromethane		UG/KG	808.2
4-Methyl-2-pentanone	2410	UG/KG	23.1

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Priority Pollutants Base/Neutral Compounds, EPA Method 625 & 605

Annual 2011

Source:			PLE	PLE	PLE	PLE	PLR	PLR
Date:			01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011
Analyte	MDL	Units	P549217	P557924	P564859	P584613	P549223	P557930
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.52	UG/L	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	ND	ND	ND	9.0
Diethyl phthalate	3.05	UG/L	5.4	5.2	6.9	5.4	7.3	4.8
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	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
Base/Neutral Compounds	8.96	UG/L	5.4	5.2	6.9	5.4	7.3	13.8
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Priority Pollutants Base/Neutral Compounds, EPA Method 625 & 605

Annual 2011

Source:			PLR	PLR	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:			02-AUG-2011	04-OCT-2011	01-FEB-2011	03-MAY-2011	02-AUG-2011	04-OCT-2011
Analyte	MDL	Units	P564865	P584619	P549234	P557941	P564876	P584630
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	1.01	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	3.4	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	9.0	9.2	ND	28.7	26.2	10.3
Diethyl phthalate	3.05	UG/L	7.1	5.4	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	ND	ND	ND
3,3-Dichlorobenzidine	2.44	UG/L	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	1.37	UG/L	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	1.64	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	1.25	UG/L	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	UG/L	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	1.52	UG/L	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
Base/Neutral Compounds	8.96	UG/L	19.5	14.6	0.0	28.7	26.2	10.3
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
1-Methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
Priority Pollutants Base/Neutral Compounds, EPA Method 605 & 8270C

Annual 2011

Source:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:		28-FEB-2011	31-MAY-2011	31-AUG-2011	31-OCT-2011
Analyte	Units	P554957	P566778	P579594	P591381
=====	====	=====	=====	=====	=====
Acenaphthene	330 UG/KG	ND	ND	ND	ND
Acenaphthylene	330 UG/KG	ND	ND	ND	ND
Anthracene	330 UG/KG	ND	ND	ND	ND
Benzdine	330 UG/KG	ND	ND	ND	ND
Benzo[a]anthracene	330 UG/KG	ND	ND	ND	ND
3,4-Benzo(b)fluoranthene	330 UG/KG	ND	ND	ND	ND
Benzo[k]fluoranthene	330 UG/KG	ND	ND	ND	ND
Benzo[a]pyrene	330 UG/KG	ND	ND	ND	ND
Benzo[g,h,i]perylene	330 UG/KG	ND	ND	ND	ND
4-Bromophenyl phenyl ether	330 UG/KG	ND	ND	ND	ND
Bis-(2-chloroethoxy) methane	330 UG/KG	ND	ND	ND	ND
Bis-(2-chloroethyl) ether	330 UG/KG	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	330 UG/KG	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	330 UG/KG	ND	ND	ND	ND
Chrysene	330 UG/KG	ND	ND	ND	ND
Dibenzo(a,h)anthracene	330 UG/KG	ND	ND	ND	ND
Butyl benzyl phthalate	330 UG/KG	ND	2940	3460	2750
Di-n-butyl phthalate	330 UG/KG	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	330 UG/KG	81500	83400	87800	81400
Diethyl phthalate	330 UG/KG	ND	ND	ND	ND
Dimethyl phthalate	330 UG/KG	ND	1110	415	ND
Di-n-octyl phthalate	330 UG/KG	ND	ND	ND	ND
3,3-Dichlorobenzidine	330 UG/KG	ND	ND	ND	ND
2,4-Dinitrotoluene	330 UG/KG	ND	ND	ND	ND
2,6-Dinitrotoluene	330 UG/KG	ND	ND	ND	ND
1,2-Diphenylhydrazine	UG/KG	ND	ND	ND	ND
Fluoranthene	330 UG/KG	ND	ND	ND	ND
Fluorene	330 UG/KG	<330	ND	ND	ND
Hexachlorobenzene	330 UG/KG	ND	ND	ND	ND
Hexachlorobutadiene	330 UG/KG	ND	ND	ND	ND
Hexachlorocyclopentadiene	330 UG/KG	ND	ND	ND	ND
Hexachloroethane	330 UG/KG	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	330 UG/KG	ND	ND	ND	ND
Isophorone	330 UG/KG	ND	ND	ND	ND
Naphthalene	330 UG/KG	430	390	ND	396
Nitrobenzene	330 UG/KG	ND	ND	ND	ND
N-nitrosodimethylamine	330 UG/KG	ND	ND	ND	ND
N-nitrosodi-n-propylamine	330 UG/KG	ND	ND	ND	ND
N-nitrosodiphenylamine	330 UG/KG	ND	ND	ND	ND
Phenanthrene	330 UG/KG	ND	639	ND	ND
Pyrene	330 UG/KG	ND	404	ND	ND
1,2,4-Trichlorobenzene	330 UG/KG	ND	ND	<330	<330
=====	====	=====	=====	=====	=====
Polynuc. Aromatic Hydrocarbons		0	1043	0	0
=====	====	=====	=====	=====	=====
Base/Neutral Compounds		81930	88883	91675	84546
=====	====	=====	=====	=====	=====
Benzo[e]pyrene	UG/KG	ND	ND	ND	ND
Biphenyl	UG/KG	194	412	ND	348
2,6-Dimethylnaphthalene	UG/KG	3120	2550	1460	1560
1-Methylnaphthalene	UG/KG	1000	726	ND	ND
1-Methylphenanthrene	UG/KG	ND	ND	ND	ND
2-Methylnaphthalene	UG/KG	1480	1080	434	439
2,3,5-Trimethylnaphthalene	UG/KG	739	ND	ND	ND
Perylene	330 UG/KG	ND	ND	ND	ND
2-Chloronaphthalene	UG/KG	ND	ND	ND	ND
Pyridine	UG/KG	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT  
Dioxin and Furan Analysis

2011 Annual

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

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

ND= not detected

NA= not analyzed

NS= not sampled

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

POINT LOMA WASTEWATER TREATMENT  
Dioxin and Furan Analysis

2011 Annual

Analyte	MDL	Units	Equiv	PLE	PLE	PLE	PLE	PLE	PLE	PLE	PLE
				TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
				P546840	P549217	P555038	P559547	P557924	P566951	P570489	P564859
2,3,7,8-tetra CDD	.215	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.424	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.367	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.09	ND	DNQ0.053	DNQ0.040	DNQ0.039	DNQ0.050	DNQ0.074	DNQ0.032
octa CDD	1.41	PG/L	0.001	0.120	DNQ0.032	DNQ0.040	DNQ0.024	DNQ0.028	DNQ0.044	DNQ0.048	DNQ0.022
2,3,7,8-tetra CDF	.209	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.235	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	ND	ND	ND	ND	ND	DNQ0.003	ND	ND

Analyte	MDL	Units	Equiv	PLE	PLE	PLE	PLE
				TCDD	TCDD	TCDD	TCDD
				SEP	OCT	NOV	DEC
				P579476	P584613	P590295	P597237
2,3,7,8-tetra CDD	.215	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.424	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.367	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.031	DNQ0.022	ND	DNQ0.025
octa CDD	1.41	PG/L	0.001	DNQ0.026	DNQ0.039	DNQ0.020	DNQ0.020
2,3,7,8-tetra CDF	.209	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.235	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.002	ND	ND	ND

nd= not detected

NA= not analyzed

NS= not sampled

DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

POINT LOMA WASTEWATER TREATMENT  
INFLUENT  
Dioxin and Furan Analysis

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

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

nd= not detected  
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POINT LOMA WASTEWATER TREATMENT  
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Analyte	MDL	Units	Equiv	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
				TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
				P546843	P549223	P555041	P559550	P557930	P566954	P570492	P564865
2,3,7,8-tetra CDD	.215	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.424	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	DNQ0.268
1,2,3,7,8,9-hexa CDD	.367	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.178	0.279	DNQ0.122	DNQ0.140	DNQ0.194	DNQ0.230	0.256	0.369
octa CDD	1.41	PG/L	0.001	0.430	0.190	0.097	0.160	0.200	0.240	0.190	0.210
2,3,7,8-tetra CDF	.209	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	DNQ0.073
1,2,3,7,8-penta CDF	.235	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	0.100	DNQ0.213	ND	ND	ND	DNQ0.434	ND	ND	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ0.032	ND	DNQ0.036	DNQ0.042	DNQ0.045	DNQ0.053	DNQ0.047	DNQ0.047
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.013	DNQ0.009	DNQ0.011	DNQ0.010	DNQ0.012	DNQ0.014	DNQ0.012	DNQ0.012

Analyte	MDL	Units	Equiv	PLR	PLR	PLR	PLR
				TCDD	TCDD	TCDD	TCDD
				SEP	OCT	NOV	DEC
				P579479	P584619	P590298	P597240
2,3,7,8-tetra CDD	.215	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	.317	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	.328	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	.424	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	.367	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	.497	PG/L	0.010	DNQ0.151	DNQ0.231	DNQ0.176	DNQ0.143
octa CDD	1.41	PG/L	0.001	0.150	0.220	0.210	0.150
2,3,7,8-tetra CDF	.209	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	.235	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	.243	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	.255	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	.248	PG/L	0.100	ND	ND	DNQ0.359	ND
1,2,3,7,8,9-hexa CDF	.258	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	.262	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	.324	PG/L	0.010	DNQ0.028	DNQ0.049	DNQ0.049	DNQ0.025
1,2,3,4,7,8,9-hepta CDF	.49	PG/L	0.010	ND	ND	ND	ND
octa CDF	.805	PG/L	0.001	DNQ0.009	DNQ0.016	DNQ0.010	DNQ0.007

nd= not detected  
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METROBIOSOLIDS CENTER  
Dioxin and Furan Analysis, SW-846 Method 8290

Annual 2011

Analyzed by: Frontier Analytical Laboratories

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN
			31-MAY-2011	31-AUG-2011
			P566778	P579594
=====	=====	=====	=====	=====
2,3,7,8-tetra CDD	.0262	NG/KG	ND	ND
1,2,3,7,8-penta CDD	.0442	NG/KG	ND	DNQ3.54
1,2,3,4,7,8_hexa_CDD	.0486	NG/KG	DNQ1.85	DNQ1.58
1,2,3,6,7,8-hexa CDD	.0587	NG/KG	22.5	DNQ8.01
1,2,3,7,8,9-hexa CDD	.0529	NG/KG	7.62	DNQ3.62
1,2,3,4,6,7,8-hepta CDD	.0954	NG/KG	295	158.0
octa CDD	.154	NG/KG	1760	1400
2,3,7,8-tetra CDF	.0205	NG/KG	3.28	3.79
1,2,3,7,8-penta CDF	.0304	NG/KG	DNQ1.51	ND
2,3,4,7,8-penta CDF	.0322	NG/KG	DNQ2.31	DNQ1.97
1,2,3,4,7,8-hexa CDF	.0365	NG/KG	DNQ2.43	DNQ2.23
1,2,3,6,7,8-hexa CDF	.0357	NG/KG	DNQ2.04	DNQ1.77
1,2,3,7,8,9-hexa CDF	.0387	NG/KG	DNQ1.11	ND
2,3,4,6,7,8-hexa CDF	.0399	NG/KG	DNQ2.83	DNQ2.79
1,2,3,4,6,7,8-hepta CDF	.0418	NG/KG	29.4	24.5
1,2,3,4,7,8,9-hepta CDF	.0429	NG/KG	DNQ2.58	DNQ2.05
octa CDF	.105	NG/KG	93.9	77.0

ND = not detected  
NA = not analyzed  
NS = not sampled  
DNQ= (Detected but not quantified). Estimated analyte concentration below calibration range.

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