

VI. Annual Pretreatment Program Analyses

2009 Annual Pretreatment Program Analyses
(QUARTERLY SLUDGE PROJECT)

The Quarterly Sludge Project is part of the Pt. Loma WWTP NPDES (Permit No. CA0107409/Order No. 95-106) 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 2009. Sampling occurred on February 03, May 05, August 04, and October 06. 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

2009 Quarterly Sludge Project

Physical/Aggregate Properties Report

Point Loma

Analyte	MDL	Units	PLR			
			03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Conductivity	10	umhos/cm	3070	3080	3590	3000
HEM (Grease & Oil)	1.2	mg/L	39.2	39.8	53.8	47.8
Total Suspended Solids	1.4	mg/L	300	306	257	304
Volatile Suspended Solids	1.6	mg/L	265	273	216	257
Total Alkalinity (bicarbonate)	20	mg/L	278	310	313	306
Total Solids	10	mg/L	2090	2220	2540	2030
Total Solids		Wt%	NR	NR	NR	NR
Total Volatile Solids		Wt%	NR	NR	NR	NR
Total Kjeldahl Nitrogen	1.6	mg/L	49	45	49	45
Total Kjeldahl Nitrogen	.04	Wt%	NR	NR	NR	NR
BOD (Biochemical Oxygen Demand)	2	mg/L	273	306	305	284
Chemical Oxygen Demand	18	mg/L	552	659	545	585
PH (composite)		pH Units	NR	NR	NR	NR
PH (grab)		pH Units	7.60	7.49	7.24	7.34
Ammonia-N	.3	mg/L	31.3	31.0	33.6	34.9
Total Volatile Solids	100	mg/L	508	616	694	533
Turbidity	.13	NTU	147.0	136.0	123.0	135.0
Total Dissolved Solids	28	mg/L	1740	1820	2160	1650
MBAS (Surfactants)	.03	mg/L	11.30	10.50	9.15	7.45

Analyte	MDL	Units	PLE			
			03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Conductivity	10	umhos/cm	3080	3120	3690	3030
HEM (Grease & Oil)	1.2	mg/L	10.7	5.8	13.9	4.8
Total Suspended Solids	1.4	mg/L	32	43	52	25
Volatile Suspended Solids	1.6	mg/L	26	31	39	19
Total Alkalinity (bicarbonate)	20	mg/L	263	291	305	297
Total Solids	10	mg/L	1830	1980	2430	1770
Total Solids		Wt%	NR	NR	NR	NR
Total Volatile Solids		Wt%	NR	NR	NR	NR
Total Kjeldahl Nitrogen	1.6	mg/L	38	37	40	42
Total Kjeldahl Nitrogen	.04	Wt%	NR	NR	NR	NR
BOD (Biochemical Oxygen Demand)	2	mg/L	104	127	107	94
Chemical Oxygen Demand	18	mg/L	225	249	232	217
PH (composite)		pH Units	NR	NR	NR	NR
PH (grab)		pH Units	7.30	7.11	7.17	7.18
Ammonia-N	.3	mg/L	30.0	29.7	31.6	34.2
Total Volatile Solids	100	mg/L	281	396	560	288
Turbidity	.13	NTU	33.0	45.7	45.0	41.1
Total Dissolved Solids	28	mg/L	1750	1890	2260	1670
MBAS (Surfactants)	.03	mg/L	6.98	7.05	5.84	6.26

NR = Not required

POINT LOMA WASTEWATER TREATMENT PLANT

2009 Quarterly Sludge Project

Physical/Aggregate Properties Report

Analyte	MDL	Units	RAW COMP	RAW COMP	RAW COMP	RAW COMP
			03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Conductivity	10	umhos/cm	NR	NR	NR	NR
HEM (Grease & Oil)	1.2	mg/L	NR	NR	NR	NR
Total Suspended Solids	1.4	mg/L	NR	NR	NR	NR
Volatile Suspended Solids	1.6	mg/L	NR	NR	NR	NR
Total Alkalinity (bicarbonate)	20	mg/L	780	702	674	770
Total Solids	10	mg/L	NR	NR	NR	NR
Total Solids		Wt%	3.35	4.17	4.00	3.69
Total Volatile Solids		Wt%	81	80	79	79
Total Kjeldahl Nitrogen	1.6	mg/L	NR	NR	NR	NR
Total Kjeldahl Nitrogen	.04	Wt%	3.2	3.8	3.2	3.3
BOD (Biochemical Oxygen Demand)	2	mg/L	NR	NR	NR	NR
Chemical Oxygen Demand	18	mg/L	NR	NR	NR	NR
PH (composite)		pH Units	6.03	6.04	5.99	6.12
PH (grab)		pH Units	NR	NR	NR	NR
Ammonia-N	.3	mg/L	NR	NR	NR	NR
Total Volatile Solids	100	mg/L	NR	NR	NR	NR
Turbidity	.13	NTU	NR	NR	NR	NR
Total Dissolved Solids	28	mg/L	NR	NR	NR	NR
MBAS (Surfactants)	.03	mg/L	NR	NR	NR	NR

Analyte	MDL	Units	DIG COMP	DIG COMP	DIG COMP	DIG COMP
			03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Conductivity	10	umhos/cm	NR	NR	NR	NR
HEM (Grease & Oil)	1.2	mg/L	NR	NR	NR	NR
Total Suspended Solids	1.4	mg/L	NR	NR	NR	NR
Volatile Suspended Solids	1.6	mg/L	NR	NR	NR	NR
Total Alkalinity (bicarbonate)	20	mg/L	2380	2420	2080	2020
Total Solids	10	mg/L	NR	NR	NR	NR
Total Solids		Wt%	1.77	1.63	1.94	1.96
Total Volatile Solids		Wt%	58	56	60	57
Total Kjeldahl Nitrogen	1.6	mg/L	NR	NR	NR	NR
Total Kjeldahl Nitrogen	.04	Wt%	6.7	7.1	6.4	6.5
BOD (Biochemical Oxygen Demand)	2	mg/L	NR	NR	NR	NR
Chemical Oxygen Demand	18	mg/L	NR	NR	NR	NR
PH (composite)		pH Units	7.29	7.27	7.13	7.06
PH (grab)		pH Units	NR	NR	NR	NR
Ammonia-N	.3	mg/L	NR	NR	NR	NR
Total Volatile Solids	100	mg/L	NR	NR	NR	NR
Turbidity	.13	NTU	NR	NR	NR	NR
Total Dissolved Solids	28	mg/L	NR	NR	NR	NR
MBAS (Surfactants)	.03	mg/L	NR	NR	NR	NR

NR = Not required

POINT LOMA WASTEWATER TREATMENT PLANT

2009 Quarterly Sludge Project

Physical/Aggregate Properties Report

MBC

Analyte	MDL	Units	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
			03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Conductivity	10	umhos/cm	5940	4680	4040	5790
HEM (Grease & Oil)	1.2	mg/L	5.1	11.4	28.5	20.3
Total Suspended Solids	1.4	mg/L	650	910	620	725
Volatile Suspended Solids	1.6	mg/L	425	650	465	525
Total Alkalinity (bicarbonate)	20	mg/L	1310	1100	1210	1060
Total Solids		Wt%	0.31	0.32	0.35	0.40
Total Volatile Solids		Wt%	33	48	47	50
Total Kjeldahl Nitrogen	1.6	mg/L	397	396	333	376
Total Kjeldahl Nitrogen	.04	Wt%	NR	NR	NR	NR
BOD (Biochemical Oxygen Demand)	2	mg/L	279	269	230	303
Chemical Oxygen Demand	18	mg/L	810	NR	741	758
pH	.08	pH Units	7.86	7.91	7.91	7.87
pH (grab sample)		pH Units	7.52	7.66	7.78	7.67
Ammonia-N	.3	mg/L	375.0	282.0	286.0	315.0

MBC

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
			28-FEB-2009	31-MAY-2009	31-AUG-2009	31-OCT-2009
Conductivity	10	umhos/cm	NR	NR	NR	NR
HEM (Grease & Oil)	1.2	mg/L	NR	NR	NR	NR
Total Suspended Solids	1.4	mg/L	NR	NR	NR	NR
Volatile Suspended Solids	1.6	mg/L	NR	NR	NR	NR
Total Alkalinity (bicarbonate)	20	mg/L	NR	NR	NR	NR
Total Solids		Wt%	31.90	27.70	27.20	27.80
Total Volatile Solids		Wt%	58	58	59	57
Total Kjeldahl Nitrogen	1.6	mg/L	NR	NR	NR	NR
Total Kjeldahl Nitrogen	.04	Wt%	3.9	4.7	4.5	4.6
BOD (Biochemical Oxygen Demand)	2	mg/L	NR	NR	NR	NR
Chemical Oxygen Demand	18	mg/L	NR	NR	NR	NR
pH	.08	pH Units	7.48	7.54	7.75	7.32
pH (grab sample)		pH Units	NR	NR	NR	NR
Ammonia-N	.3	mg/L	NR	NR	NR	NR

NR = Not required

POINT LOMA WASTEWATER TREATMENT PLANT

2009 Quarterly Sludge Project

Physical/Aggregate Properties Report

MBC

Analyte	MDL	Units	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
			03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Conductivity	10	umhos/cm	NR	NR	NR	NR
HEM (Grease & Oil)	1.2	mg/L	NR	NR	NR	NR
Total Suspended Solids	1.4	mg/L	NR	NR	NR	NR
Volatile Suspended Solids	1.6	mg/L	NR	NR	NR	NR
Total Alkalinity (bicarbonate)	20	mg/L	2650	2440	2350	2190
Total Solids		Wt%	2.28	2.22	2.58	2.50
Total Volatile Solids		Wt%	69	68	70	67
Total Kjeldahl Nitrogen	1.6	mg/L	1970	1920	1970	1870
Total Kjeldahl Nitrogen	.04	Wt%	NR	NR	NR	NR
BOD (Biochemical Oxygen Demand)	2	mg/L	NR	NR	NR	NR
Chemical Oxygen Demand	18	mg/L	NR	NR	NR	NR
pH	.08	pH Units	7.31	7.37	7.20	7.16
pH (grab sample)		pH Units	NR	NR	NR	NR
Ammonia-N	.3	mg/L	NR	NR	NR	NR

MBC

Analyte	MDL	Units	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL
			03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Conductivity	10	umhos/cm	NR	NR	NR	NR
HEM (Grease & Oil)	1.2	mg/L	NR	NR	NR	NR
Total Suspended Solids	1.4	mg/L	4040	6160	3830	6200
Volatile Suspended Solids	1.6	mg/L	3440	5280	3330	4760
Total Alkalinity (bicarbonate)	20	mg/L	170	370	469	351
Total Solids		Wt%	0.54	0.61	0.54	0.61
Total Volatile Solids		Wt%	69	73	72	73
Total Kjeldahl Nitrogen	1.6	mg/L	208	265	198	59
Total Kjeldahl Nitrogen	.04	Wt%	NR	NR	NR	NR
BOD (Biochemical Oxygen Demand)	2	mg/L	NR	NR	NR	NR
Chemical Oxygen Demand	18	mg/L	NR	NR	NR	NR
pH	.08	pH Units	6.58	7.10	7.06	6.90
pH (grab sample)		pH Units	NR	NR	NR	NR
Ammonia-N	.3	mg/L	NR	NR	NR	NR

NR = Not required

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

From: 01-JAN-2009 to: 31-DEC-2009

Source:		PLE	PLE	PLE	PLE
Date:		03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Sample ID:	MDL Units	P458387	P468671	P481200	P490472
=====					
Aluminum	47 UG/L	218	257	210	123
Antimony	2.9 UG/L	ND	ND	ND	ND
Arsenic	.4 UG/L	0.58	0.66	1.22	0.78
Barium	.039 UG/L	46	47	56	40
Beryllium	.022 UG/L	<0.02	ND	ND	<0.02
Boron	7 UG/L	441	447	477	420
Cadmium	.53 UG/L	ND	ND	ND	ND
Chromium	1.2 UG/L	2.7	2.7	<1.2	1.5
Cobalt	.85 UG/L	ND	ND	ND	ND
Copper	2 UG/L	34	25	22	13
Iron	37 UG/L	2370	4780	3080	1960
Lead	2 UG/L	ND	ND	ND	ND
Manganese	.24 UG/L	108	115	104	91
Mercury	.09 UG/L	ND	ND	ND	ND
Molybdenum	.89 UG/L	11.5	11.8	15.4	10.4
Nickel	.53 UG/L	15	6	7	7
Selenium	.28 UG/L	1.26	1.54	1.44	0.99
Silver	.4 UG/L	ND	ND	ND	ND
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	ND	1.0	3.1	ND
Zinc	2.5 UG/L	39	24	31	19
=====					
Calcium	.04 MG/L	84	88	87	76
Lithium	.002 MG/L	0.04	0.05	0.05	0.04
Magnesium	.1 MG/L	55	60	67	51
Potassium	.3 MG/L	25	30	32	26
Sodium	1 MG/L	376	417	518	366
=====					
Bromide	.1 MG/L	1.50	1.57	2.18	1.59
Chloride	7 MG/L	628	649	837	642
Fluoride	.05 MG/L	0.96	0.87	1.07	0.90
Nitrate	.04 MG/L	0.69	0.14	0.17	0.80
Ortho Phosphate	.2 MG/L	2.79	2.25	6.44	5.67
Sulfate	9 MG/L	266	279	276	235
=====					
Calcium Hardness	.1 MG/L	210	219	218	189
Magnesium Hardness	.4 MG/L	224	246	275	208
Total Hardness	.4 MG/L	434	466	493	398
=====					
Cyanides,Total	.002 MG/L	0.003	0.002	ND	0.002
Sulfides-Total	.18 MG/L	ND	0.28	1.04	0.31
Sulfides-Reactive	11 MG/KG	NA	NA	NA	NA
Total Kjeldahl Nitrogen	1.6 MG/L	37.9	37.4	39.7	41.7

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)

From: 01-JAN-2009 to: 31-DEC-2009

Source:		PLR	PLR	PLR	PLR
Date:		03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Sample ID:	MDL Units	P458392	P468676	P481205	P490477
=====					
Aluminum	47 UG/L	1010	1010	1270	2340
Antimony	2.9 UG/L	ND	ND	ND	ND
Arsenic	.4 UG/L	1.04	1.02	1.78	1.58
Barium	.039 UG/L	108	111	112	194
Beryllium	.022 UG/L	0.18	ND	ND	0.09
Boron	7 UG/L	442	434	451	431
Cadmium	.53 UG/L	ND	ND	ND	0.6
Chromium	1.2 UG/L	14.3	4.3	5.3	13.1
Cobalt	.85 UG/L	0.9	ND	ND	1.8
Copper	2 UG/L	138	118	134	253
Iron	37 UG/L	6030	6270	5890	14800
Lead	2 UG/L	5	3	3	8
Manganese	.24 UG/L	115	107	100	141
Mercury	.09 UG/L	ND	0.21	0.38	0.21
Molybdenum	.89 UG/L	12.6	13.7	15.2	17.3
Nickel	.53 UG/L	24	8	9	25
Selenium	.28 UG/L	2.16	2.11	2.20	2.64
Silver	.4 UG/L	2.5	1.0	1.6	3.3
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	2.7	2.6	6.5	6.8
Zinc	2.5 UG/L	177	160	177	403
=====					
Calcium	.04 MG/L	85	89	82	74
Lithium	.002 MG/L	0.04	0.05	0.05	0.04
Magnesium	.1 MG/L	55	60	57	50
Potassium	.3 MG/L	25	30	30	25
Sodium	1 MG/L	369	408	428	357
=====					
Bromide	.1 MG/L	1.48	1.56	1.69	1.59
Chloride	7 MG/L	606	621	672	623
Fluoride	.05 MG/L	0.86	0.86	1.13	0.99
Nitrate	.04 MG/L	0.18	0.16	0.14	0.35
Ortho Phosphate	.2 MG/L	4.62	6.14	9.35	6.91
Sulfate	9 MG/L	272	282	263	240
=====					
Calcium Hardness	.1 MG/L	212	221	205	185
Magnesium Hardness	.4 MG/L	224	246	234	206
Total Hardness	.4 MG/L	437	468	439	391
=====					
Cyanides,Total	.002 MG/L	ND	ND	ND	ND
Sulfides-Total	.18 MG/L	1.55	2.08	4.24	1.49
Sulfides-Reactive	11 MG/KG	NA	NA	NA	NA
Total Kjeldahl Nitrogen	1.6 MG/L	48.6	45.0	49.3	44.9

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)

From: 01-JAN-2009 to: 31-DEC-2009

Source:		MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:		03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Sample ID:	MDL Units	P458402	P468686	P481215	P490487
=====					
Aluminum	47 UG/L	1450	2650	2150	2010
Antimony	2.9 UG/L	6	ND	ND	ND
Arsenic	.4 UG/L	2.33	3.49	3.08	2.79
Barium	.039 UG/L	155	259	200	206
Beryllium	.022 UG/L	ND	0.17	0.05	0.13
Boron	7 UG/L	407	402	418	409
Cadmium	.53 UG/L	ND	ND	ND	ND
Chromium	1.2 UG/L	16.3	26.7	18.3	18.9
Cobalt	.85 UG/L	3.9	4.0	3.2	5.0
Copper	2 UG/L	146	300	284	244
Iron	37 UG/L	57100	40800	36700	41700
Lead	2 UG/L	7	8	8	7
Manganese	.24 UG/L	526	342	296	390
Mercury	.09 UG/L	ND	0.40	0.37	0.23
Molybdenum	.89 UG/L	9.9	10.9	11.7	10.7
Nickel	.53 UG/L	33	34	28	40
Selenium	.28 UG/L	2.77	5.03	3.39	3.58
Silver	.4 UG/L	0.6	3.0	2.2	ND
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	3.8	8.4	6.0	4.1
Zinc	2.5 UG/L	217	398	340	316
=====					
Calcium	.04 MG/L	150	147	142	167
Lithium	.002 MG/L	0.04	0.05	0.05	0.05
Magnesium	.1 MG/L	62	63	59	66
Potassium	.3 MG/L	47	48	44	46
Sodium	1 MG/L	287	311	308	344
=====					
Bromide	.1 MG/L	1.19	1.08	1.03	1.28
Chloride	7 MG/L	1020	827	853	1020
Fluoride	.05 MG/L	0.22	0.07	0.09	0.52
Nitrate	.04 MG/L	0.80	0.90	ND	0.35
Ortho Phosphate	.2 MG/L	1.08	6.08	9.04	3.93
Sulfate	9 MG/L	72	72	45	43
=====					
Calcium Hardness	.1 MG/L	376	367	353	418
Magnesium Hardness	.4 MG/L	253	260	243	270
Total Hardness	.4 MG/L	629	627	596	687
=====					
Cyanides,Total	.002 MG/L	ND	0.008	0.004	0.006
Sulfides-Total	.18 MG/L	1.56	7.14	19.30	9.73
Sulfides-Reactive	11 MG/KG	NA	NA	NA	NA
Total Kjeldahl Nitrogen	1.6 MG/L	397.0	396.0	333.0	376.0

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)

From: 01-JAN-2009 to: 31-DEC-2009

Source:		MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
Date:		03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Sample ID:	MDL Units	P458456	P468740	P481269	P490541
=====					
Aluminum	47 UG/L	61100	161000	155000	216000
Antimony	2.9 UG/L	52	76	75	62
Arsenic	.4 UG/L	135.00	99.90	152.00	146.00
Barium	.039 UG/L	3630	9330	9100	11900
Beryllium	.022 UG/L	1.11	7.94	4.45	9.00
Boron	7 UG/L	539	782	1210	1210
Cadmium	.53 UG/L	ND	17.7	17.4	12.0
Chromium	1.2 UG/L	414.0	1440.0	1110.0	1680.0
Cobalt	.85 UG/L	36.1	112.0	87.3	182.0
Copper	2 UG/L	6480	17100	16200	22600
Iron	37 UG/L	592000	1620000	1460000	1890000
Lead	2 UG/L	114	313	364	446
Manganese	.24 UG/L	2160	7170	7210	8150
Mercury	.09 UG/L	19.80	25.30	20.40	15.50
Molybdenum	.89 UG/L	202.0	485.0	648.0	918.0
Nickel	.53 UG/L	333	961	948	2100
Selenium	.28 UG/L	204.00	98.00	177.00	65.50
Silver	.4 UG/L	65.4	195.0	206.0	149.0
Thallium	3.9 UG/L	ND	ND	ND	ND
Vanadium	.64 UG/L	102.0	260.0	267.0	270.0
Zinc	2.5 UG/L	6770	16800	17400	20600
=====					
Calcium	.04 MG/L	146	68	140	122
Lithium	.002 MG/L	0.05	0.06	0.05	0.06
Magnesium	.1 MG/L	53	60	59	68
Potassium	.3 MG/L	59	62	45	58
Sodium	1 MG/L	173	203	310	214
=====					
Bromide	.1 MG/L	0.45	0.63	0.58	0.58
Chloride	7 MG/L	1460	1120	1210	1140
Fluoride	.05 MG/L	0.51	0.05	0.15	0.58
Nitrate	.04 MG/L	0.28	0.26	ND	0.27
Ortho Phosphate	.2 MG/L	ND	ND	ND	1.43
Sulfate	9 MG/L	31	25	24	27
=====					
Calcium Hardness	.1 MG/L	NA	NA	NA	NA
Magnesium Hardness	.4 MG/L	NA	NA	NA	NA
Total Hardness	.4 MG/L	NA	NA	NA	NA
=====					
Cyanides, Total	.002 MG/L	0.032	0.014	0.020	0.018
Sulfides-Total	.18 MG/L	449.00	431.00	432.00	667.00
Sulfides-Reactive	11 MG/KG	114	129	136	172
Total Kjeldahl Nitrogen	1.6 MG/L	1970.0	1920.0	1970.0	1870.0

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)

From: 01-JAN-2009 to: 31-DEC-2009

Source:		MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL
Date:		03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Sample ID:	MDL Units	P458454	P468738	P481267	P490539
=====					
Aluminum	47 UG/L	11800	5150	13900	2570
Antimony	2.9 UG/L	15	ND	5	ND
Arsenic	.4 UG/L	11.20	14.10	11.30	2.63
Barium	.039 UG/L	559	314	875	158
Beryllium	.022 UG/L	0.18	0.08	0.20	0.05
Boron	7 UG/L	459	404	522	465
Cadmium	.53 UG/L	ND	<0.5	1.6	ND
Chromium	1.2 UG/L	72.6	23.7	63.1	9.6
Cobalt	.85 UG/L	2.6	1.6	5.1	6.1
Copper	2 UG/L	870	514	1700	171
Iron	37 UG/L	124000	29300	75000	17100
Lead	2 UG/L	20	11	31	ND
Manganese	.24 UG/L	916	352	556	360
Mercury	.09 UG/L	1.02	3.42	3.33	ND
Molybdenum	.89 UG/L	23.5	11.6	49.3	ND
Nickel	.53 UG/L	45	20	56	9
Selenium	.28 UG/L	15.80	18.00	11.80	ND
Silver	.4 UG/L	7.8	2.6	17.9	ND
Thallium	3.9 UG/L	ND	ND	ND	18
Vanadium	.64 UG/L	14.3	7.5	20.5	ND
Zinc	2.5 UG/L	1040	522	1680	271
=====					
Calcium	.04 MG/L	109	83	84	87
Lithium	.002 MG/L	0.04	0.04	0.05	0.04
Magnesium	.1 MG/L	43	33	38	38
Potassium	.3 MG/L	30	26	31	28
Sodium	1 MG/L	181	191	200	203
=====					
Bromide	.1 MG/L	0.34	0.51	0.52	0.44
Chloride	7 MG/L	313	358	300	397
Fluoride	.05 MG/L	0.31	0.36	0.12	0.41
Nitrate	.04 MG/L	ND	ND	0.19	0.21
Ortho Phosphate	.2 MG/L	ND	57.70	69.60	60.40
Sulfate	9 MG/L	77	67	37	33
=====					
Calcium Hardness	.1 MG/L	NA	NA	NA	NA
Magnesium Hardness	.4 MG/L	NA	NA	NA	NA
Total Hardness	.4 MG/L	NA	NA	NA	NA
=====					
Cyanides,Total	.002 MG/L	0.004	0.004	0.004	0.007
Sulfides-Total	.18 MG/L	15.40	44.80	43.60	12.50
Sulfides-Reactive	11 MG/KG	ND	21	35	ND
Total Kjeldahl Nitrogen	1.6 MG/L	208.0	265.0	198.0	59.1

ND= Not Detected
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 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)

From: 01-JAN-2009 to: 31-DEC-2009

Source:		RAW COMP	RAW COMP	RAW COMP	RAW COMP
Date:		03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Sample ID:	MDL Units	P458427	P468711	P481240	P490512
=====					
Aluminum	4 MG/KG	2910	3130	3580	3090
Antimony	.5 MG/KG	2.6	1.6	1.4	1.7
Arsenic	.68 MG/KG	1.07	0.81	1.52	1.63
Barium	.05 MG/KG	241.0	149.0	210.0	208.0
Beryllium	.02 MG/KG	0.55	0.05	0.04	0.11
Boron	.7 MG/KG	17.8	15.4	19.6	17.3
Cadmium	.1 MG/KG	0.97	0.83	0.72	0.82
Chromium	.3 MG/KG	48.1	16.7	15.6	21.4
Cobalt	.2 MG/KG	1.3	1.0	1.0	1.8
Copper	.4 MG/KG	361	360	377	337
Iron	20 MG/KG	28900	29300	26000	32700
Lead	2 MG/KG	10.5	9.7	9.1	9.5
Manganese	.2 MG/KG	105	96	82	91
Mercury	.4 MG/KG	1.00	<0.40	0.78	4.06
Molybdenum	.1 MG/KG	8.2	8.8	11.5	10.1
Nickel	.3 MG/KG	46	15	16	35
Selenium	.47 MG/KG	1.94	2.89	3.60	4.83
Silver	.07 MG/KG	7.9	4.8	6.4	3.3
Thallium	1 MG/KG	ND	ND	ND	ND
Vanadium	.2 MG/KG	9.0	9.9	11.3	10.3
Zinc	8 MG/KG	516	463	451	470
=====					
Bromide	3 MG/KG	40.8	90.4	58.7	53.5
Chloride	180 MG/KG	22600	42600	22700	20400
Fluoride	1.3 MG/KG	ND	ND	ND	ND
Nitrate	1 MG/KG	5.66	9.32	4.56	5.85
Ortho Phosphate	4 MG/KG	4320	15700	6480	4690
Sulfate	220 MG/KG	1350	1840	592	1290
=====					
Cyanides, Total	.1 MG/KG	1.53	1.89	2.01	4.61
Cyanide, Releaseable	.018 MG/KG	ND	ND	<0.02	ND
Sulfides-Total	2170 MG/KG	17800	21000	13300	24700
Sulfides-Reactive	11 MG/KG	82	136	156	149
Total Kjeldahl Nitrogen	.04 WT%	3.18	3.80	3.20	3.26

ND= Not Detected
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 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)

From: 01-JAN-2009 to: 31-DEC-2009

Source:		DIG COMP	DIG COMP	DIG COMP	DIG COMP
Date:		03-FEB-2009	05-MAY-2009	04-AUG-2009	06-OCT-2009
Sample ID:	MDL Units	P458441	P468725	P481254	P490526
=====					
Aluminum	4 MG/KG	4970	5560	5490	5060
Antimony	.5 MG/KG	4.5	2.7	2.6	1.8
Arsenic	.68 MG/KG	2.18	1.85	2.69	3.26
Barium	.05 MG/KG	371.0	295.0	244.0	285.0
Beryllium	.02 MG/KG	0.18	0.38	0.16	0.38
Boron	.7 MG/KG	37.1	39.0	36.7	41.9
Cadmium	.1 MG/KG	1.26	1.30	1.24	1.24
Chromium	.3 MG/KG	81.8	54.5	50.0	56.2
Cobalt	.2 MG/KG	4.4	2.5	2.6	5.2
Copper	.4 MG/KG	601	631	686	644
Iron	20 MG/KG	70700	64100	74000	75700
Lead	2 MG/KG	16.3	17.0	16.8	17.0
Manganese	.2 MG/KG	258	237	228	230
Mercury	.4 MG/KG	2.19	0.83	1.01	3.38
Molybdenum	.1 MG/KG	17.8	16.3	21.2	21.4
Nickel	.3 MG/KG	80	46	43	78
Selenium	.47 MG/KG	4.93	5.67	5.48	5.52
Silver	.07 MG/KG	7.2	7.8	7.3	4.0
Thallium	1 MG/KG	ND	ND	ND	ND
Vanadium	.2 MG/KG	17.4	18.2	17.7	19.0
Zinc	8 MG/KG	831	855	884	814
=====					
Bromide	3 MG/KG	126.0	113.0	111.0	112.0
Chloride	180 MG/KG	64600	68600	68600	78300
Fluoride	1.3 MG/KG	19.2	ND	8.1	34.1
Nitrate	1 MG/KG	14.10	12.00	9.47	17.20
Ortho Phosphate	4 MG/KG	184	1730	379	74
Sulfate	220 MG/KG	1610	1450	1170	1450
=====					
Cyanides, Total	.1 MG/KG	3.07	4.08	7.96	6.8
Cyanide, Releaseable	.018 MG/KG	ND	ND	ND	ND
Sulfides-Total	2170 MG/KG	25000	35100	40900	44800
Sulfides-Reactive	11 MG/KG	94	86	136	188
Total Kjeldahl Nitrogen	.04 WT%	6.71	7.12	6.38	6.48

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 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)

From: 01-JAN-2009 to: 31-DEC-2009

Source:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:		28-FEB-2009	31-MAY-2009	31-AUG-2009	31-OCT-2009
Sample ID:	MDL Units	P463456	P474221	P485453	P494996
=====					
Aluminum	4 MG/KG	5700	6180	6390	6120
Antimony	.5 MG/KG	4.4	3.5	3.0	1.8
Arsenic	.68 MG/KG	5.13	1.62	1.99	3.84
Barium	.05 MG/KG	403.0	318.0	281.0	203.0
Beryllium	.02 MG/KG	0.38	0.38	0.24	0.37
Boron	.7 MG/KG	20.6	20.4	26.1	31.9
Cadmium	.1 MG/KG	1.44	1.44	1.23	1.30
Chromium	.3 MG/KG	86.2	69.5	52.2	63.7
Cobalt	.2 MG/KG	4.2	3.9	3.4	5.4
Copper	.4 MG/KG	674	742	716	715
Iron	20 MG/KG	83400	78500	81300	86200
Lead	2 MG/KG	18.0	17.7	17.5	18.7
Manganese	.2 MG/KG	295	273	258	262
Mercury	.4 MG/KG	1.29	1.13	1.47	1.24
Molybdenum	.1 MG/KG	19.6	20.8	23.2	24.2
Nickel	.3 MG/KG	81	62	45	80
Selenium	.47 MG/KG	4.66	6.94	6.11	6.31
Silver	.07 MG/KG	7.9	9.0	7.7	3.9
Thallium	1 MG/KG	ND	ND	ND	ND
Vanadium	.2 MG/KG	19.8	19.1	17.7	20.8
Zinc	8 MG/KG	829	964	893	896
=====					
Bromide	3 MG/KG	NR	NR	NR	NR
Chloride	180 MG/KG	NR	NR	NR	NR
Fluoride	1.3 MG/KG	NR	NR	NR	NR
Nitrate	1 MG/KG	NR	NR	NR	NR
Ortho Phosphate	4 MG/KG	NR	NR	NR	NR
Sulfate	220 MG/KG	NR	NR	NR	NR
=====					
Cyanides, Total	.1 MG/KG	4.96	2.40	3.00	8.81
Cyanide, Releaseable	.018 MG/KG	ND	ND	ND	0.06
Sulfides-Total	2170 MG/KG	5940	13300	14600	11500
Sulfides-Reactive	11 MG/KG	ND	ND	ND	ND
Total Kjeldahl Nitrogen	.04 WT%	3.85	4.68	4.54	4.62

ND= Not Detected
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 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

From: 01-JAN-2009 to: 31-DEC-2009

Source	Sample Date	Sample ID	Gross Alpha Radiation pCi/L	Gross Beta Radiation pCi/L
PLE	03-FEB-2009	P458387	4.8±3.0	29.5±6.4
PLE	05-MAY-2009	P468671	0.0±3.3	32.3±6.6
PLE	04-AUG-2009	P481200	4.0±3.6	34.5±7.4
PLE	06-OCT-2009	P490472	1.3±2.5	34.8±7.9
PLR	03-FEB-2009	P458392	3.4±2.8	29.9±6.2
PLR	05-MAY-2009	P468676	0.6±4.4	30.7±7.9
PLR	04-AUG-2009	P481205	2.4±3.6	33.5±7.8
PLR	06-OCT-2009	P490477	2.8±3.4	32.7±8.0
MBC_COMBCN	03-FEB-2009	P458402	3.9±3.3	56.7±9.7
MBC_COMBCN	05-MAY-2009	P468686	4.5±4.0	48.6±9.1
MBC_COMBCN	04-AUG-2009	P481215	3.2±3.5	45.9±8.3
MBC_COMBCN	06-OCT-2009	P490487	3.9±3.6	50.1±9.7

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-2009	P463456	4660±3215	9400±3100
MBCDEWCN	31-MAY-2009	P474221	2460±3815	7980±2920
MBCDEWCN	31-AUG-2009	P485453	3500±3500	8920±3200
MBCDEWCN	31-OCT-2009	P494996	1950±3700	11800±3550

Units in picocuries per Liter (pCi/Kg)

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

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLR	PLR
			03-FEB-2009 P458387	05-MAY-2009 P468671	04-AUG-2009 P481200	06-OCT-2009 P490472	03-FEB-2009 P458392	05-MAY-2009 P468676
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	5.0	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	27.0	19.0
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	5.0	0.0	0.0	0.0	27.0	19.0
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	5.0	0.0	0.0	0.0	27.0	19.0

ND=not detected
 NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	PLR	PLR	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
			04-AUG-2009 P481205	06-OCT-2009 P490477	03-FEB-2009 P458402	05-MAY-2009 P468686	04-AUG-2009 P481215	06-OCT-2009 P490487
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	5.0	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	5.0	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	5.0	0.0	0.0	0.0	0.0

ND=not detected
 NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
			03-FEB-2009 P458456	05-MAY-2009 P468740	04-AUG-2009 P481269	06-OCT-2009 P490541
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	250	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	250.0	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	250.0	0.0	0.0

ND=not detected
 NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	RAW COMP	RAW COMP
			03-FEB-2009 P458454	05-MAY-2009 P468738	04-AUG-2009 P481267	06-OCT-2009 P490539	03-FEB-2009 P458427	05-MAY-2009 P468711
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
 NA=not analyzed

POINT LOMA WASTEWATER TREATMENT PLANT / METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis, EPA Method 608 (with additions)

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	RAW COMP	RAW COMP	DIG COMP	DIG COMP	DIG COMP	DIG COMP
			04-AUG-2009 P481240	06-OCT-2009 P490512	03-FEB-2009 P458441	05-MAY-2009 P468725	04-AUG-2009 P481254	06-OCT-2009 P490526
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	100	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	430	ND	130	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	430	0.0	130	100	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	430	0.0	130	100	0.0	0.0

ND=not detected
 NA=not analyzed

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
			31-JAN-2009 P460096	28-FEB-2009 P463456	31-MAR-2009 P467340	30-APR-2009 P470801	31-MAY-2009 P474221
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	<28000	ND	ND
p,p-DDT	35000	NG/KG	ND	ND	ND	ND	ND
o,p-DDD	28000	NG/KG	51500	60000	ND	82000	50500
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	<48000	58000	54000
Alpha Chlordene		NG/KG	NA	NA	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA	ND	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	51500	60000	0	82000	50500
Chlordane + related cmpds.	48000	NG/KG	0	0	0	58000	54000
Polychlorinated biphenyls	580000	NG/KG	0	0	0	0	0
Chlorinated Hydrocarbons	580000	NG/KG	51500	60000	0	140000	104500

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

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
			30-JUN-2009 P477781	31-JUL-2009 P482163	31-AUG-2009 P485453	30-SEP-2009 P491055	31-OCT-2009 P494996
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	62000
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	33000	ND	ND	17000	43000
Gamma (trans) Chlordane	48000	NG/KG	67500	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	44000	ND	59500
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	62000
Chlordane + related cmpds.	48000	NG/KG	100500	0	0	17000	43000
Polychlorinated biphenyls	580000	NG/KG	0	0	0	0	0
Chlorinated Hydrocarbons	580000	NG/KG	100500	0	44000	17000	164500

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

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Chlorinated Pesticide Analysis

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	Annual Average
			30-NOV-2009 P498304	31-DEC-2009 P501908	
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	5167
p,p-DDT	35000	NG/KG	ND	ND	ND
o,p-DDD	28000	NG/KG	ND	ND	20333
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	246000	ND	28250
Gamma (trans) Chlordane	48000	NG/KG	ND	ND	14958
Alpha Chlordene		NG/KG	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	ND
Oxychlordane	28000	NG/KG	ND	ND	ND
Trans Nonachlor	18000	NG/KG	33000	23000	13292
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	25500
Chlordane + related cmpds.	48000	NG/KG	246000	0	43208
Polychlorinated biphenyls	580000	NG/KG	0	0	0
Chlorinated Hydrocarbons	580000	NG/KG	279000	23000	82000

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

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

Organophosphorus Pesticides

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL Units	PLE	PLE	PLR	PLR	MBC_COMBCN
		05-MAY-2009 P468671	06-OCT-2009 P490472	05-MAY-2009 P468676	06-OCT-2009 P490477	05-MAY-2009 P468686
Demeton O	.15 UG/L	ND	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND	ND
Malathion	.03 UG/L	0.3	ND	0.2	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.3	0.0	0.2	0.0	0.0
Demeton -O, -S	.15 UG/L	0.0	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.3 UG/L	0.3	0.0	0.2	0.0	0.0
Bolstar	.07 UG/L	ND	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND	ND
Dibrom	.2 UG/L	ND	ND	ND	ND	ND
Dichlofenthion	.03 UG/L	ND	ND	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND	ND
EPN	.09 UG/L	ND	ND	ND	ND	ND
Ethoprop	.04 UG/L	ND	ND	ND	ND	ND
Fensulfothion	.07 UG/L	ND	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND	ND
Mevinphos, e isomer	.05 UG/L	ND	ND	ND	ND	ND
Mevinphos, z isomer	.3 UG/L	ND	ND	ND	ND	ND
Phorate	.04 UG/L	ND	ND	ND	ND	ND
Ronnel	.03 UG/L	ND	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND	ND
Sulfotepp	.04 UG/L	ND	ND	ND	ND	ND
Tokuthion	.06 UG/L	ND	ND	ND	ND	ND
Trichloronate	.04 UG/L	ND	ND	ND	ND	ND

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

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

Organophosphorus Pesticides

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL Units	MBC_COMBCN	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_RSL	MBC_NC_RSL
		06-OCT-2009 P490487	05-MAY-2009 P468740	06-OCT-2009 P490541	05-MAY-2009 P468738	06-OCT-2009 P490539
Demeton O	.15 UG/L	ND	ND	ND	ND	ND
Demeton S	.08 UG/L	ND	ND	ND	ND	ND
Diazinon	.03 UG/L	ND	ND	ND	ND	ND
Guthion	.15 UG/L	ND	ND	ND	ND	ND
Malathion	.03 UG/L	ND	ND	ND	ND	ND
Parathion	.03 UG/L	ND	ND	ND	ND	ND
Thiophosphorus Pesticides	.15 UG/L	0.0	0.0	0.0	0.0	0.0
Demeton -O, -S	.15 UG/L	0.0	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.3 UG/L	0.0	0.0	0.0	0.0	0.0
Bolstar	.07 UG/L	ND	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND	ND
Dibrom	.2 UG/L	ND	ND	ND	ND	ND
Dichlofenthion	.03 UG/L	ND	ND	ND	ND	ND
Dichlorvos	.05 UG/L	ND	ND	ND	ND	ND
Dimethoate	.04 UG/L	ND	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND	ND
EPN	.09 UG/L	ND	ND	ND	ND	ND
Ethoprop	.04 UG/L	ND	ND	ND	ND	ND
Fensulfothion	.07 UG/L	ND	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND	ND
Mevinphos, e isomer	.05 UG/L	ND	ND	ND	ND	ND
Mevinphos, z isomer	.3 UG/L	ND	ND	ND	ND	ND
Phorate	.04 UG/L	ND	ND	ND	ND	ND
Ronnel	.03 UG/L	ND	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND	ND
Sulfotepp	.04 UG/L	ND	ND	ND	ND	ND
Tokuthion	.06 UG/L	ND	ND	ND	ND	ND
Trichloronate	.04 UG/L	ND	ND	ND	ND	ND

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

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

Organophosphorus Pesticides

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL Units	RAW COMP	RAW COMP	DIG COMP	DIG COMP
		05-MAY-2009 P468711	06-OCT-2009 P490512	05-MAY-2009 P468725	06-OCT-2009 P490526
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
Thiophosphorus Pesticides	.15 UG/L	0.0	0.0	0.0	0.0
Demeton -O, -S	.15 UG/L	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.3 UG/L	0.0	0.0	0.0	0.0
Bolstar	.07 UG/L	ND	ND	ND	ND
Chlorpyrifos	.03 UG/L	ND	ND	ND	ND
Coumaphos	.15 UG/L	ND	ND	ND	ND
Dibrom	.2 UG/L	ND	ND	ND	ND
Dichlofenthion	.03 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
EPN	.09 UG/L	ND	ND	ND	ND
Ethoprop	.04 UG/L	ND	ND	ND	ND
Fensulfothion	.07 UG/L	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND
Mevinphos, e isomer	.05 UG/L	ND	ND	ND	ND
Mevinphos, z isomer	.3 UG/L	ND	ND	ND	ND
Phorate	.04 UG/L	ND	ND	ND	ND
Ronnel	.03 UG/L	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND
Sulfotepp	.04 UG/L	ND	ND	ND	ND
Tokuthion	.06 UG/L	ND	ND	ND	ND
Trichloronate	.04 UG/L	ND	ND	ND	ND

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

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY

ORGANOPHOSPHORUS PESTICIDES

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN
			31-MAY-2009 P474221	31-OCT-2009 P494996
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
Thiophosphorus Pesticides	33	UG/KG	0.0	0.0
Demeton -O, -S	67	UG/KG	0.0	0.0
Total Organophosphorus Pesticides	100	UG/KG	234	131
Bolstar	50	UG/KG	ND	ND
Chlorpyrifos		UG/KG	124	131
Coumaphos	33	UG/KG	ND	ND
Dibrom		UG/KG	ND	ND
Dichlofenthion	20	UG/KG	ND	ND
Dichlorvos	17	UG/KG	ND	ND
Dimethoate	27	UG/KG	ND	ND
Disulfoton	20	UG/KG	ND	ND
EPN	33	UG/KG	110	ND
Ethoprop	27	UG/KG	ND	ND
Fensulfothion	100	UG/KG	ND	ND
Merphos	17	UG/KG	ND	ND
Mevinphos, e isomer	17	UG/KG	ND	ND
Mevinphos, z isomer	100	UG/KG	ND	ND
Monocrotophos		UG/KG	NA	NA
Phorate	17	UG/KG	ND	ND
Ronnel	20	UG/KG	ND	ND
Stirophos	20	UG/KG	ND	ND
Sulfotepp	17	UG/KG	ND	ND
Tetraethylpyrophosphate		UG/KG	NA	NA
Tokuthion	17	UG/KG	ND	ND
Trichloronate	20	UG/KG	ND	ND

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

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

Tributyl Tin (Sewage)

From 01-JAN-2009 To 31-DEC-2009

	PLE 03-FEB-2009 P458387	PLE 05-MAY-2009 P468671	PLE 04-AUG-2009 P481200	PLE 06-OCT-2009 P490472	PLR 03-FEB-2009 P458392	PLR 05-MAY-2009 P468676	PLR 04-AUG-2009 P481205
Monobutyltin	ND	ND	ND	ND	ND	ND	ND
Tributyltin	ND	ND	ND	ND	ND	ND	ND

	PLR 06-OCT-2009 P490477	MBC_COMBCN 03-FEB-2009 P458402	MBC_COMBCN 05-MAY-2009 P468686	MBC_COMBCN 04-AUG-2009 P481215	MBC_COMBCN 06-OCT-2009 P490487	MBCDEWCN 31-MAY-2009 P474221	MBCDEWCN 31-OCT-2009 P494996
Monobutyltin	ND	ND	ND	ND	ND	ND	ND
Tributyltin	ND	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
 Quarterly Sludge Project

Herbicide Analysis

From 01-JAN-2009 To 31-DEC-2009

Date:			MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Sample:	MDL	Units	28-FEB-2009	31-MAY-2009	31-AUG-2009	31-OCT-2009
			P463456	P474221	P485453	P494996
=====	=====	=====	=====	=====	=====	=====
2,4-dichlorophenoxyacetic acid	2.66	MG/KG	ND	ND	ND	ND
2,4,5-TP (Silvex)	2.87	MG/KG	ND	ND	ND	ND

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

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

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLR	PLR
			03-FEB-2009 P458387	05-MAY-2009 P468671	04-AUG-2009 P481200	06-OCT-2009 P490472	03-FEB-2009 P458392	05-MAY-2009 P468676
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	14.3	16.2	14.3	18.2	15.6	17.6
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	14.3	16.2	14.3	18.2	15.6	17.6
Phenols	2.16	UG/L	14.3	16.2	14.3	18.2	15.6	17.6

Additional analytes determined;

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	45.3	43.5	23.8	34.2	46.0	48.6
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	PLR	PLR	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
			04-AUG-2009 P481205	06-OCT-2009 P490477	03-FEB-2009 P458402	05-MAY-2009 P468686	04-AUG-2009 P481215	06-OCT-2009 P490487
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	7.5	11.7	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	19.2	22.5	3.1	3.2	3.0	4.2
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	19.2	22.5	10.6	14.9	3.0	4.2
Phenols	2.16	UG/L	19.2	22.5	10.6	14.9	3.0	4.2

Additional analytes determined;

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	27.9	49.2	ND	ND	7.1	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
 Quarterly Sludge Project - PRIORITY POLLUTANT ANALYSIS-ACID EXTRACTABLE COMPOUNDS, EPA Method 625

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	RAW COMP	RAW COMP	RAW COMP	RAW COMP	DIG COMP	DIG COMP
			03-FEB-2009 P458427	05-MAY-2009 P468711	04-AUG-2009 P481240	06-OCT-2009 P490512	03-FEB-2009 P458441	05-MAY-2009 P468725
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	11.1	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	64.1	44.1	52.7	38.4	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	64.1	44.1	52.7	38.4	11.1	0.0
Phenols	2.16	UG/L	64.1	44.1	52.7	38.4	11.1	0.0

Additional analytes determined;

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	802.0	455.0	335.0	335.0	ND	ND
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	DIG COMP	DIG COMP	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL	MBC_NC_DSL
			04-AUG-2009 P481254	06-OCT-2009 P490526	03-FEB-2009 P458456	05-MAY-2009 P468740	04-AUG-2009 P481269	06-OCT-2009 P490541
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	38.7	ND	28.8	22.5
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	ND	3.7	ND	ND	3.7	2.1
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	0.0	3.7	38.7	0.0	32.5	24.6
Phenols	2.16	UG/L	0.0	3.7	38.7	0.0	32.5	24.6

Additional analytes determined;

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	ND	3.5	45.0	11.1	10.5	31.5
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
 Quarterly Sludge Project - PRIORITY POLLUTANT ANALYSIS-ACID EXTRACTABLE COMPOUNDS, EPA Method 625
 From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL	MBC_NC_RSL
			03-FEB-2009 P458454	05-MAY-2009 P468738	04-AUG-2009 P481267	06-OCT-2009 P490539
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	13.9	ND	38.7	12.9
2,4,6-trichlorophenol	1.65	UG/L	ND	ND	ND	ND
Total Chlorinated Phenols	1.67	UG/L	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	2.16	UG/L	13.9	0.0	38.7	12.9
Phenols	2.16	UG/L	13.9	0.0	38.7	12.9

Additional analytes determined;

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	162.0	7.6	178.0	87.9
2,4,5-trichlorophenol	1.66	UG/L	ND	ND	ND	ND

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
			28-FEB-2009 P463456	31-MAY-2009 P474221	31-AUG-2009 P485453	31-OCT-2009 P494996
2-chlorophenol	330	UG/KG	ND	ND	ND	ND
4-chloro-3-methylphenol	330	UG/KG	ND	ND	ND	ND
2,4-dichlorophenol	330	UG/KG	ND	ND	ND	ND
2,4-dimethylphenol	330	UG/KG	ND	ND	ND	630.0
2,4-dinitrophenol	330	UG/KG	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	800	UG/KG	ND	ND	ND	ND
2-nitrophenol	330	UG/KG	ND	ND	ND	ND
4-nitrophenol	800	UG/KG	ND	ND	ND	ND
Pentachlorophenol	800	UG/KG	ND	ND	ND	ND
Phenol	330	UG/KG	4560	3980	4110	5210
2,4,6-trichlorophenol	330	UG/KG	ND	ND	ND	ND
Total Chlorinated Phenols	800	UG/KG	0.0	0.0	0.0	0.0
Total Non-Chlorinated Phenols	800	UG/KG	4560	3980	4110	5840

Additional analytes determined;

Phenols	800	UG/KG	4560	3980	4110	5840
2-methylphenol	330	UG/KG	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)	330	UG/KG	ND	ND	ND	ND
4-methylphenol(3-MP is unresolved)	330	UG/KG	632	1490	1030	4480
2,4,5-trichlorophenol	800	UG/KG	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
 SEWAGE Priority Pollutants Purgeable Compounds, EPA Method 624
 From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	PLR	PLR	PLR	PLR	PLE	PLE
			03-FEB-2009 P458395	05-MAY-2009 P468679	04-AUG-2009 P481208	06-OCT-2009 P490480	03-FEB-2009 P458390	05-MAY-2009 P468674
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	0.7	ND	ND	ND	1.1	0.7
Bromoform	.5	UG/L	ND	ND	ND	ND	ND	ND
Bromomethane	.7	UG/L	ND	ND	ND	ND	<0.7	2.1
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	2.0
Chloroform	.2	UG/L	2.8	3.0	4.8	2.8	5.5	5.8
Chloromethane	.5	UG/L	ND	ND	ND	ND	4.9	11.6
Dibromochloromethane	.6	UG/L	0.7	ND	ND	ND	0.9	<0.6
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	0.7	0.9	1.7*	0.6	0.6	0.8
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	ND	0.7	ND	ND	ND	0.8
Methylene chloride	.3	UG/L	2.2^	1.6	3.5	1.8^	2.7^	2.4
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	1.3	1.0	0.7	0.9	1.8
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	1.4	0.0	0.0	0.0	6.9	14.4
Total Dichlorobenzenes	.5	UG/L	0.0	0.0	0.0	0.0	0.0	0.0
Purgeable Compounds	1.3	UG/L	5.8	7.5	9.3	4.1	13.9	28.0

Additional analytes determined;

Acetone	4.5	UG/L	1390.0	2940.0	286.0	2910.0	1440.0	2330.0
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	ND	ND	ND	ND	ND	ND
Carbon disulfide	.6	UG/L	1.3	2.3	2.7	2.6	2.2	2.9
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	0.5	1.2	0.5	ND	0.5	1.5
Styrene	.3	UG/L	0.4	0.6	0.4	0.4	0.4	0.5
1,2,4-trichlorobenzene	.7	UG/L	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6	UG/L	0.9	3.0	1.0	0.6	0.8	3.3
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

* = Did not meet QC criteria for method blank recovery. The method blank was above the MDL, range of recoveries above the MDL for 1,4-dichlorobenzene are between 0.46 to 0.99 UG/L.

^ = Did not meet QC criteria for method blank recovery. The method blank was above the MDL, range of recoveries above the MDL for Methylene chloride are between 0.34 to 0.73 UG/L.

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

POINT LOMA WASTEWATER TREATMENT PLANT
 SEWAGE Priority Pollutants Purgeable Compounds, EPA Method 624
 From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL Units	PLE	PLE	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
		04-AUG-2009 P481203	06-OCT-2009 P490475	03-FEB-2009 P458405	05-MAY-2009 P468689	04-AUG-2009 P481218	06-OCT-2009 P490490
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	2.3	ND	ND	ND
Bromoform	.5 UG/L	ND	ND	ND	ND	ND	ND
Bromomethane	.7 UG/L	0.7	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	1.4	ND	ND	ND	ND	ND
Chloroform	.2 UG/L	5.5	3.9	5.4	2.7	3.4	2.1
Chloromethane	.5 UG/L	7.9	7.1	ND	ND	ND	ND
Dibromochloromethane	.6 UG/L	ND	ND	1.0	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	1.5*	<0.4	1.0	1.1	1.5*	0.4
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	0.3	0.4	0.4	ND	0.8
Methylene chloride	.3 UG/L	2.0	2.0^	1.3^	1.6	2.0	1.9^
1,1,2,2-tetrachloroethane	.5 UG/L	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1.1 UG/L	ND	ND	2.3	ND	ND	ND
Toluene	.4 UG/L	4.6	0.8	2.2	2.9	2.9	1.8
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	8.6	7.1	3.3	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	22.6	12.1	14.6	8.7	8.3	5.1

Additional analytes determined;

Acetone	4.5 UG/L	541.0	1990.0	253.0	126.0	291.0	91.6
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	7.8	ND	13.0	7.5	9.5	6.6
Carbon disulfide	.6 UG/L	3.5	3.1	0.9	1.1	10.8	1.2
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	0.8	0.4	0.5	ND	ND	ND
Styrene	.3 UG/L	0.5	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	.7 UG/L	ND	ND	ND	ND	ND	ND
meta,para xylenes	.6 UG/L	1.8	0.9	0.8	ND	ND	0.7
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

* = Did not meet QC criteria for method blank recovery. The method blank was above the MDL, range of recoveries above the MDL for 1,4-dichlorobenzene are between 0.46 to 0.99 UG/L.

^ = Did not meet QC criteria for method blank recovery. The method blank was above the MDL, range of recoveries above the MDL for Methylene chloride are between 0.34 to 0.73 UG/L.

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

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT- Priority Pollutants Purgeable Compounds, EPA Method 624

From 01-JAN-2009 to 31-DEC-2009

Source:

Analyte	MDL	Units	DIG COMP	DIG COMP	DIG COMP	DIG COMP	RAW COMP	RAW COMP
			03-FEB-2009 P458441	05-MAY-2009 P468725	04-AUG-2009 P481254	06-OCT-2009 P490526	03-FEB-2009 P458427	05-MAY-2009 P468711
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	86.0
Chloromethane	3.4	UG/KG	ND	ND	650.0	ND	ND	ND
Dibromochloromethane	2.4	UG/KG	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	1.5	UG/KG	57.7	39.0	31.2	ND	94.4	31.4
1,3-dichlorobenzene	1.8	UG/KG	39.8	36.5	31.6	ND	20.0	28.4
1,4-dichlorobenzene	1.5	UG/KG	595.0	601.0	403.0	221.0	503.0	373.0
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	243.0	326.0	130.0	790.0	64.6	155.0
Methylene chloride	3.5	UG/KG	267.0	73.7	237000.0	217.0	184.0	227.0
1,1,2,2-tetrachloroethane	5.9	UG/KG	ND	ND	ND	ND	ND	ND
Tetrachloroethene	2.8	UG/KG	ND	ND	ND	ND	57.7	123.0
Toluene	1.2	UG/KG	141.0	119.0	76.4	91.4	283.0	1110.0
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	650.0	0.0	0.0	0.0
Total Dichlorobenzenes	1.8	UG/KG	97.5	75.5	62.8	0.0	114.4	59.8
Purgeable Compounds	6.9	UG/KG	1343.5	1195.2	238322.2	1319.4	1206.7	2133.8

Additional analytes determined;

Acetone	31.4	UG/KG	8660.0	3950.0	2690.0	6170.0	93200.0	261000.0
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	3550.0	1550.0	1110.0	2110.0	3010.0	6520.0
Carbon disulfide	4.7	UG/KG	379.0	260.0	393.0	324.0	153.0	235.0
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	59.9	45.1	ND	ND	44.3	83.8
Methyl Iodide	3.8	UG/KG	ND	ND	ND	ND	ND	ND
Methyl methacrylate	2.4	UG/KG	ND	ND	ND	ND	ND	ND
2-nitropropane	45.8	UG/KG	ND	ND	ND	ND	ND	ND
ortho-xylene	1.9	UG/KG	150.0	71.0	45.6	83.2	97.9	278.0
Styrene	1.7	UG/KG	59.7	68.6	39.5	114.0	121.0	260.0
1,2,4-trichlorobenzene	2.5	UG/KG	68.5	ND	ND	ND	ND	86.8
meta,para xylenes	4.2	UG/KG	251.0	223.0	105.0	171.0	249.0	745.0
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
 QUARTERLY SLUDGE PROJECT- Priority Pollutants Purgeable Compounds, EPA Method 624

From 01-JAN-2009 to 31-DEC-2009

Source:

Analyte	MDL	Units	RAW COMP	RAW COMP
			04-AUG-2009 P481240	06-OCT-2009 P490512
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	22.1	66.7
Chloromethane	3.4	UG/KG	ND	ND
Dibromochloromethane	2.4	UG/KG	ND	ND
1,2-dichlorobenzene	1.5	UG/KG	15.0	ND
1,3-dichlorobenzene	1.8	UG/KG	31.1	ND
1,4-dichlorobenzene	1.5	UG/KG	314.0	140.0
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	115.0	177.0
Methylene chloride	3.5	UG/KG	2470.0	231.0
1,1,2,2-tetrachloroethane	5.9	UG/KG	ND	ND
Tetrachloroethene	2.8	UG/KG	ND	ND
Toluene	1.2	UG/KG	365.0	2980.0
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	0.0
Total Dichlorobenzenes	1.8	UG/KG	46.1	0.0
Purgeable Compounds	6.9	UG/KG	3332.2	3594.7

Additional analytes determined;

Acetone	31.4	UG/KG	28400.0	116000.0
Allyl chloride	3.6	UG/KG	ND	ND
Benzyl chloride	4.3	UG/KG	ND	ND
2-butanone	36.3	UG/KG	1090.0	6690.0
Carbon disulfide	4.7	UG/KG	292.0	443.0
Chloroprene	3.1	UG/KG	ND	ND
1,2-dibromoethane	2.5	UG/KG	ND	ND
Isopropylbenzene	1.3	UG/KG	37.5	ND
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	181.0	237.0
Styrene	1.7	UG/KG	145.0	283.0
1,2,4-trichlorobenzene	2.5	UG/KG	ND	ND
meta,para xylenes	4.2	UG/KG	443.0	645.0
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
ANNUAL SLUDGE Purgeables

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
			31-JAN-2009 P460096	28-FEB-2009 P463456	31-MAR-2009 P467340	30-APR-2009 P470801	31-MAY-2009 P474221	30-JUN-2009 P477781
Acrolein	6.4	UG/KG	ND	ND	ND	ND	ND	ND
Chloromethane	3.4	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	2	ND	3	ND	ND
Chloroethane	3.6	UG/KG	ND	ND	ND	ND	ND	ND
Chloroform	2.3	UG/KG	ND	ND	ND	ND	ND	ND
Dibromochloromethane	2.4	UG/KG	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5.56	UG/KG	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	1.5	UG/KG	5	14	7	6	4	5
1,3-dichlorobenzene	1.8	UG/KG	3	11	7	5	4	5
1,4-dichlorobenzene	1.5	UG/KG	45	53	60	72	65	56
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	26	20	23	28	36	23
Methylene chloride	3.5	UG/KG	19	15	11	9	11	<4
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	17	13	15	17	16	9
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 Compounds	6.9	UG/KG	0	0	0	0	0	0
Purgeable Compounds	6.9	UG/KG	115	128	123	140	136	98

Additional analytes determined;

Acetone	31.4	UG/KG	25500	17700	17400	13200	13000	13600
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	5770	4340	4290	2960	3450	3980
Carbon disulfide	4.7	UG/KG	60	54	50	43	46	25
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	5	4	4	4	3	3
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	3.4	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	16	12	12	11	13	9
Styrene	1.7	UG/KG	8	7	11	8	17	10
1,2,4-trichlorobenzene	2.5	UG/KG	ND	<3	3	ND	5	3
meta,para xylenes	4.2	UG/KG	30	21	21	22	25	15
2-chloroethylvinyl ether	5.5	UG/KG	ND	ND	ND	ND	ND	ND
Dibromofluoromethane		UG/KG	875	805	890	947	967	979
4-methyl-2-pentanone	9.7	UG/KG	19	<10	<10	16	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SLUDGE Purgeables

From 01-JAN-2009 To 31-DEC-2009

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
			31-JUL-2009 P482163	31-AUG-2009 P485453	30-SEP-2009 P491055	31-OCT-2009 P494996	30-NOV-2009 P498304	31-DEC-2009 P501908
Acrolein	6.4	UG/KG	ND	ND	ND	ND	ND	ND
Chloromethane	3.4	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	<2	ND	7
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	4	5	6
Chloroethane	3.6	UG/KG	ND	ND	ND	ND	ND	ND
Chloroform	2.3	UG/KG	ND	ND	ND	ND	ND	ND
Dibromochloromethane	2.4	UG/KG	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	5.56	UG/KG	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	1.5	UG/KG	7	6	9	14	11	12
1,3-dichlorobenzene	1.8	UG/KG	6	5	7	3	5	3
1,4-dichlorobenzene	1.5	UG/KG	57	38	37	94	87	89
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	33	27	291	338	312	277
Methylene chloride	3.5	UG/KG	3090	6	275	192	7	39
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	16	13	17	37	44	51
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 Compounds	6.9	UG/KG	0	0	0	0	0	0
Purgeable Compounds	6.9	UG/KG	3209	95	636	682	471	484
Additional analytes determined;								
Acetone	31.4	UG/KG	15100	8420	15400	14700	13000	21400
Allyl chloride	3.6	UG/KG	ND	ND	ND	ND	ND	ND
Benzyl chloride	4.3	UG/KG	ND	ND	ND	ND	ND	61
2-butanone	36.3	UG/KG	4040	2880	4720	9560	8390	11500
Carbon disulfide	4.7	UG/KG	34	45	47	151	108	108
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	ND	3	ND	25	30	30
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	3.4	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	13	11	ND	49	51	50
Styrene	1.7	UG/KG	12	9	99	98	51	45
1,2,4-trichlorobenzene	2.5	UG/KG	ND	ND	ND	ND	6	5
meta,para xylenes	4.2	UG/KG	23	20	25	93	96	97
2-chloroethylvinyl ether	5.5	UG/KG	ND	ND	ND	ND	ND	ND
Dibromofluoromethane		UG/KG	1020	991	1060	927	932	927
4-methyl-2-pentanone	9.7	UG/KG	17	<10	<10	19	32	44

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SLUDGE Purgeables

From 01-JAN-2009 To 31-DEC-2009

Average

Analyte	MDL	Units	Average
Acrolein	6.4	UG/KG	ND
Chloromethane	3.4	UG/KG	ND
Acrylonitrile	3.9	UG/KG	ND
Benzene	2.1	UG/KG	1
Bromodichloromethane	2.2	UG/KG	ND
Bromoform	2.4	UG/KG	ND
Bromomethane	6.9	UG/KG	ND
Carbon tetrachloride	3	UG/KG	ND
Chlorobenzene	1	UG/KG	2
Chloroethane	3.6	UG/KG	ND
Chloroform	2.3	UG/KG	ND
Dibromochloromethane	2.4	UG/KG	ND
Dichlorodifluoromethane	5.56	UG/KG	ND
1,2-dichlorobenzene	1.5	UG/KG	8
1,3-dichlorobenzene	1.8	UG/KG	5
1,4-dichlorobenzene	1.5	UG/KG	63
1,1-dichloroethane	1.9	UG/KG	ND
1,2-dichloroethane	3.6	UG/KG	ND
1,1-dichloroethene	5	UG/KG	ND
trans-1,2-dichloroethene	3.5	UG/KG	ND
1,2-dichloropropane	2.6	UG/KG	ND
cis-1,3-dichloropropene	2.5	UG/KG	ND
trans-1,3-dichloropropene	2.1	UG/KG	ND
Ethylbenzene	1.4	UG/KG	120
Methylene chloride	3.5	UG/KG	306
1,1,2,2-tetrachloroethane	5.9	UG/KG	ND
Tetrachloroethene	2.8	UG/KG	ND
Toluene	1.2	UG/KG	22
1,1,1-trichloroethane	3.2	UG/KG	ND
1,1,2-trichloroethane	2.8	UG/KG	ND
Trichloroethene	2.6	UG/KG	ND
Trichlorofluoromethane	2.2	UG/KG	ND
Vinyl chloride	4.8	UG/KG	ND
Halomethane Purgeable Compounds	6.9	UG/KG	0
Purgeable Compounds	6.9	UG/KG	526

Additional analytes determined;

Acetone	31.4	UG/KG	15702
Allyl chloride	3.6	UG/KG	ND
Benzyl chloride	4.3	UG/KG	5
2-butanone	36.3	UG/KG	5490
Carbon disulfide	4.7	UG/KG	64
Chloroprene	3.1	UG/KG	ND
1,2-dibromoethane	2.5	UG/KG	ND
Isopropylbenzene	1.3	UG/KG	9
Methyl Iodide	3.8	UG/KG	ND
Methyl methacrylate	2.4	UG/KG	ND
Methyl tert-butyl ether	3.4	UG/KG	ND
2-nitropropane	45.8	UG/KG	ND
ortho-xylene	1.9	UG/KG	21
Styrene	1.7	UG/KG	31
1,2,4-trichlorobenzene	2.5	UG/KG	2
meta,para xylenes	4.2	UG/KG	41
2-chloroethylvinyl ether	5.5	UG/KG	ND
Dibromofluoromethane		UG/KG	943
4-methyl-2-pentanone	9.7	UG/KG	12

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

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT
 Priority Pollutants Base/Neutral Compounds, EPA Method 625 & 605
 From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	PLE	PLE	PLE	PLE	PLR	PLR
			03-FEB-2009 P458387	05-MAY-2009 P468671	04-AUG-2009 P481200	06-OCT-2009 P490472	03-FEB-2009 P458392	05-MAY-2009 P468676
bis(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.01	UG/L	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	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
2-chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	7.1	8.8	7.9	8.3	7.4	7.5
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	ND	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	ND	ND	ND	ND	14.0	10.3
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
Benzo[K]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	1.37	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	7.1	8.8	7.9	8.3	21.4	17.8
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND	ND
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT
 Priority Pollutants Base/Neutral Compounds, EPA Method 625 & 605
 From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	PLR	PLR	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
			04-AUG-2009 P481205	06-OCT-2009 P490477	03-FEB-2009 P458402	05-MAY-2009 P468686	04-AUG-2009 P481215	06-OCT-2009 P490487
bis(2-chloroethyl) ether	1.38	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1.16	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	1.16	UG/L	ND	ND	ND	ND	ND	ND
Nitrobenzene	1.6	UG/L	ND	ND	ND	ND	ND	ND
Hexachloroethane	1.32	UG/L	ND	ND	ND	ND	ND	ND
Isophorone	1.53	UG/L	ND	ND	ND	ND	ND	ND
bis(2-chloroethoxy)methane	1.01	UG/L	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	1.52	UG/L	ND	ND	ND	ND	ND	ND
Naphthalene	1.65	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
2-chloronaphthalene	1.87	UG/L	ND	ND	ND	ND	ND	ND
Acenaphthylene	1.77	UG/L	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	1.44	UG/L	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	1.53	UG/L	ND	ND	ND	ND	ND	ND
Acenaphthene	1.8	UG/L	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	1.36	UG/L	ND	ND	ND	ND	ND	ND
Fluorene	1.61	UG/L	ND	ND	ND	ND	ND	ND
4-chlorophenyl phenyl ether	1.57	UG/L	ND	ND	ND	ND	ND	ND
Diethyl phthalate	3.05	UG/L	6.7	7.9	ND	ND	ND	ND
N-nitrosodiphenylamine	3.48	UG/L	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	1.4	UG/L	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	1.48	UG/L	ND	ND	ND	ND	ND	ND
Phenanthrene	1.34	UG/L	ND	ND	ND	ND	ND	ND
Anthracene	1.29	UG/L	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	3.96	UG/L	ND	ND	ND	ND	ND	ND
N-nitrosodimethylamine	1.27	UG/L	ND	ND	ND	ND	ND	ND
Fluoranthene	1.33	UG/L	ND	ND	ND	ND	ND	ND
Pyrene	1.43	UG/L	ND	ND	ND	ND	ND	ND
Benzidine	1.52	UG/L	ND	ND	ND	ND	ND	ND
Butyl benzyl phthalate	2.84	UG/L	4.4	ND	ND	ND	ND	ND
Chrysene	1.16	UG/L	ND	ND	ND	ND	ND	ND
Benzo[A]anthracene	1.1	UG/L	ND	ND	ND	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	8.96	UG/L	11.1	15.7	ND	17.9	62.2	<9.0
Di-n-octyl phthalate	1	UG/L	ND	ND	ND	<1.0	ND	ND
3,3-dichlorobenzidine	2.44	UG/L	ND	ND	ND	3.9	ND	ND
Benzo[K]fluoranthene	1.49	UG/L	ND	ND	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	1.35	UG/L	ND	ND	ND	ND	ND	ND
Benzo[A]pyrene	1.25	UG/L	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1.14	UG/L	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	1.01	UG/L	ND	ND	ND	ND	ND	ND
Benzo[G,H,I]perylene	1.09	UG/L	ND	ND	ND	ND	ND	ND
1,2-diphenylhydrazine	1.37	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	22.2	23.6	0.0	21.8	62.2	0.0
1-methylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	2.14	UG/L	ND	ND	ND	ND	ND	ND
2,6-dimethylnaphthalene	2.16	UG/L	ND	ND	ND	ND	ND	ND
2,3,5-trimethylnaphthalene	2.18	UG/L	ND	ND	ND	ND	ND	ND
1-methylphenanthrene	1.46	UG/L	ND	ND	ND	ND	ND	ND
Benzo[e]pyrene	1.44	UG/L	ND	ND	ND	ND	ND	ND
Perylene	1.41	UG/L	ND	ND	ND	ND	ND	ND
Biphenyl	2.29	UG/L	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
 Quarterly Sludge Project - Priority Pollutants Base/Neutral Compounds, EPA Method 605 & 8270C
 From 01-JAN-2009 to 31-DEC-2009

Analyte	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
		28-FEB-2009 P463456	31-MAY-2009 P474221	31-AUG-2009 P485453	31-OCT-2009 P494996
Acenaphthene	330 UG/KG	ND	ND	ND	ND
Acenaphthylene	330 UG/KG	ND	ND	ND	ND
Anthracene	330 UG/KG	ND	ND	ND	ND
Benzidine	330 UG/KG	ND	ND	ND	ND
Benzo[A]anthracene	330 UG/KG	ND	ND	ND	<330
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	614	685	802	ND
Dibenzo(A,H)anthracene	330 UG/KG	ND	ND	ND	ND
Butyl benzyl phthalate	330 UG/KG	1710	2540	2990	2140
Di-n-butyl phthalate	330 UG/KG	547	ND	<330	ND
Bis-(2-ethylhexyl) phthalate	330 UG/KG	72800	99500	150000	116000
Diethyl phthalate	330 UG/KG	ND	ND	ND	ND
Dimethyl phthalate	330 UG/KG	ND	ND	ND	ND
Di-n-octyl phthalate	330 UG/KG	ND	ND	5600	2760
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	<330	ND
Fluorene	330 UG/KG	ND	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	765	ND	ND	ND
Isophorone	330 UG/KG	ND	ND	ND	ND
Naphthalene	330 UG/KG	ND	ND	<330	ND
Nitrobenzene	330 UG/KG	ND	ND	ND	ND
N-nitrosodimethylamine	330 UG/KG	ND	ND	ND	501
N-nitrosodi-n-propylamine	330 UG/KG	ND	ND	ND	ND
N-nitrosodiphenylamine	330 UG/KG	551	ND	389	ND
Phenanthrene	330 UG/KG	729	ND	727	847
Pyrene	330 UG/KG	ND	ND	380	<330
1,2,4-trichlorobenzene	330 UG/KG	<330	<330	ND	ND
Polynuc. Aromatic Hydrocarbons		2108	685	1909	847
Base/Neutral Compounds		77716	102725	161491	122248

Additional analytes determined

Benzo[e]pyrene	UG/KG	ND	ND	ND	ND
Biphenyl	UG/KG	142	ND	ND	ND
2,6-dimethylnaphthalene	UG/KG	1800	1270	1080	829
1-methylnaphthalene	UG/KG	862	ND	428	475
1-methylphenanthrene	UG/KG	ND	ND	ND	ND
2-methylnaphthalene	UG/KG	1320	489	512	724
2,3,5-trimethylnaphthalene	UG/KG	ND	ND	ND	ND
Perylene	330 UG/KG	ND	ND	ND	ND
2-chloronaphthalene	UG/KG	ND	ND	603	ND
Pyridine	UG/KG	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT
SLUDGE PROJECT - ANNUAL SUMMARY
Dioxin and Furan Analysis

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	Equiv	PLE	PLE	PLE	PLE	PLE	PLE	PLE	
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
				P458011	P458387	P465220	P468381	P468671	P475678	P480147	P481200
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	PLE	PLE	PLE	PLE
				SEP	OCT	NOV	DEC
				P489438	P490472	P497185	P499838
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND

Above are permit required CDD/CDF isomers.

nd= not detected

NA= not analyzed NS= not sampled

POINT LOMA WASTEWATER TREATMENT
 SLUDGE PROJECT - ANNUAL SUMMARY
 Dioxin and Furan Analysis

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL Units	PLE	PLE	PLE	PLE	PLE	PLE	PLE	
		TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	TCDD	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
		P458011	P458387	P465220	P468381	P468671	P475678	P480147	P481200
2,3,7,8-tetra CDD	125 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	247 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166 PG/L	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	222 PG/L	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL Units	PLE	PLE	PLE	PLE
		TCDD	TCDD	TCDD	TCDD
		SEP	OCT	NOV	DEC
		P489438	P490472	P497185	P499838
2,3,7,8-tetra CDD	125 PG/L	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123 PG/L	ND	ND	ND	ND
1,2,3,4,7,8_hexa_CDD	113 PG/L	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98 PG/L	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111 PG/L	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137 PG/L	ND	ND	ND	ND
octa CDD	247 PG/L	ND	ND	ND	ND
2,3,7,8-tetra CDF	115 PG/L	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140 PG/L	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118 PG/L	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147 PG/L	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107 PG/L	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152 PG/L	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148 PG/L	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90 PG/L	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166 PG/L	ND	ND	ND	ND
octa CDF	222 PG/L	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT
SLUDGE PROJECT - ANNUAL SUMMARY
Dioxin and Furan Analysis

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL	Units	Equiv	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
				P458014	P458392	P465223	P468384	P468676	P475681	P480150	P481205	P489441
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	113	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL	Units	Equiv	PLR	PLR	PLR
				OCT	NOV	DEC
				P490477	P496635	P499841
2,3,7,8-tetra CDD	125	PG/L	1.000	ND	ND	ND
1,2,3,7,8-penta CDD	123	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	113	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137	PG/L	0.010	ND	ND	ND
octa CDD	247	PG/L	0.001	ND	ND	ND
2,3,7,8-tetra CDF	115	PG/L	0.100	ND	ND	ND
1,2,3,7,8-penta CDF	140	PG/L	0.050	ND	ND	ND
2,3,4,7,8-penta CDF	118	PG/L	0.500	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147	PG/L	0.100	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107	PG/L	0.100	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152	PG/L	0.100	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148	PG/L	0.100	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90	PG/L	0.010	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166	PG/L	0.010	ND	ND	ND
octa CDF	222	PG/L	0.001	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT
SLUDGE PROJECT - ANNUAL SUMMARY
Dioxin and Furan Analysis

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL Units	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR	PLR
		TCDD JAN P458014	TCDD FEB P458392	TCDD MAR P465223	TCDD APR P468384	TCDD MAY P468676	TCDD JUN P475681	TCDD JUL P480150	TCDD AUG P481205	TCDD SEP P489441
2,3,7,8-tetra CDD	125 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDD	123 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	113 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDD	247 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,7,8-tetra CDF	115 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8-penta CDF	140 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,7,8-penta CDF	118 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND
octa CDF	222 PG/L	ND	ND	ND	ND	ND	ND	ND	ND	ND

Analyte	MDL Units	PLR	PLR	PLR
		TCDD OCT P490477	TCDD NOV P496635	TCDD DEC P499841
2,3,7,8-tetra CDD	125 PG/L	ND	ND	ND
1,2,3,7,8-penta CDD	123 PG/L	ND	ND	ND
1,2,3,4,7,8-hexa_CDD	113 PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDD	98 PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDD	111 PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDD	137 PG/L	ND	ND	ND
octa CDD	247 PG/L	ND	ND	ND
2,3,7,8-tetra CDF	115 PG/L	ND	ND	ND
1,2,3,7,8-penta CDF	140 PG/L	ND	ND	ND
2,3,4,7,8-penta CDF	118 PG/L	ND	ND	ND
1,2,3,4,7,8-hexa CDF	147 PG/L	ND	ND	ND
1,2,3,6,7,8-hexa CDF	107 PG/L	ND	ND	ND
1,2,3,7,8,9-hexa CDF	152 PG/L	ND	ND	ND
2,3,4,6,7,8-hexa CDF	148 PG/L	ND	ND	ND
1,2,3,4,6,7,8-hepta CDF	90 PG/L	ND	ND	ND
1,2,3,4,7,8,9-hepta CDF	166 PG/L	ND	ND	ND
octa CDF	222 PG/L	ND	ND	ND

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

METROBIOSOLIDS CENTER
 SLUDGE PROJECT - ANNUAL SUMMARY
 Dioxin and Furan Analysis, SW-846 Method 8290

From 01-JAN-2009 to 31-DEC-2009

Analyte	MDL Units	MBCDEWCN	MBCDEWCN
		31-MAY-2009 P474221	31-OCT-2009 P494996
2,3,7,8-tetra CDD	NG/KG	ND	ND
1,2,3,7,8-penta CDD	NG/KG	ND	ND
1,2,3,4,7,8_hexa_CDD	NG/KG	ND	ND
1,2,3,6,7,8-hexa CDD	NG/KG	E7	12
1,2,3,7,8,9-hexa CDD	NG/KG	ND	22
1,2,3,4,6,7,8-hepta CDD	NG/KG	148	189
octa CDD	NG/KG	1100	1190
2,3,7,8-tetra CDF	NG/KG	3	3
1,2,3,7,8-penta CDF	NG/KG	ND	ND
2,3,4,7,8-penta CDF	NG/KG	ND	ND
1,2,3,4,7,8-hexa CDF	NG/KG	ND	ND
1,2,3,6,7,8-hexa CDF	NG/KG	ND	ND
1,2,3,7,8,9-hexa CDF	NG/KG	ND	ND
2,3,4,6,7,8-hexa CDF	NG/KG	ND	ND
1,2,3,4,6,7,8-hepta CDF	NG/KG	E16	ND
1,2,3,4,7,8,9-hepta CDF	NG/KG	ND	ND
octa CDF	NG/KG	54	61

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