

IV. Metro Biosolids Center (MBC) Data

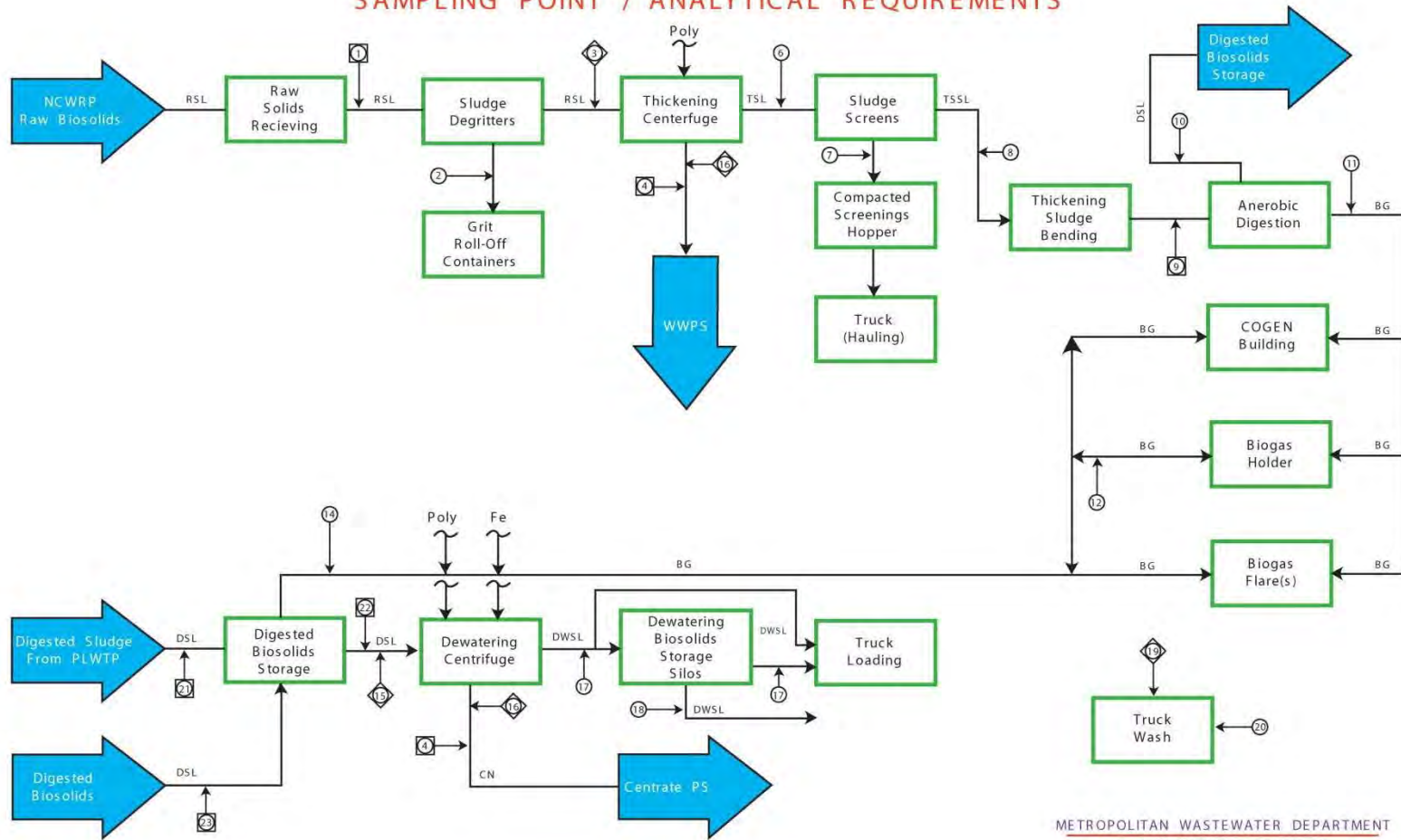
- A. MBC Diagrams
- B. Return Stream Data Summary
- C. Digester and Digested Sludge Data Summary
- D. Gas Production
- E. Chemical Usage
- F. Graphs of Chemical Usage
- G. Solids Handling Annual Report
- H. Results of "Title 22" Sludge Hazardous Waste Tests

A. MBC Diagrams

Metro Biosolids Center



METROPOLITAN BIOSOLIDS CENTER PROCESS FLOW DIAGRAM SAMPLING POINT / ANALYTICAL REQUIREMENTS



METROPOLITAN WASTEWATER DEPARTMENT
O & M SUPPORT SERVICES

- GRAB SAMPLER
- ◻ AUTOSAMPLER
- ◇ ANALYZER/METER

LOCATION	DESCRIPTION	LOCATION	DESCRIPTION	LOCATION	DESCRIPTION
1	Raw Solids Sampler (73 AU 9040): Volatile Solids, Total Solids, pH, Alkalinity	9	Thickened Sludge (73 AU 9050): Total Solids, Volatile Solids, Temperature, pH, Alkalinity, Volatile Acids, Iron	16	Centrate (Dewatering & Thickening) Analyzers: Total Suspended Solids
2	Grit: Volatile Solids, % Moisture	10	Aerobically Digested Sludge: % Total Solids, % Volatile Solids, Temperature, pH, Alkalinity, Volatile Acids	17	Dewatered Biosolids: Total Solids, Volatile Solids, pH, TKN, PCB, Trace Metals
3	Thickened Sludge Feed Loop (76 DE 2140): Total Solids, Volatile Solids, pH, BOD5	11	Biogas from Digestion: Methane (CH ₄), Carbon Dioxide (CO ₂), Hydrogen Sulfide (H ₂ S)	18	Dewatered Biosolids Cake: Total Solids, Volatile Solids, pH, TKN, PCB, Trace Metals
4	Centrate (Dewatering & Thickening) Sampler (76 AU 2635): Total Solids, pH, BOD5	12	Biogas to Biogas Holder: Methane (CH ₄), Carbon Dioxide (CO ₂), H ₂ S	19	Truck Wash: (87 AIT 9011): Cl ₂ Residue
5	Thickened Biosolids: Total Solids, Volatile Solids, pH	13	Biogas from Digestion: Methane (CH ₄), Carbon Dioxide (CO ₂)	20	Truck Wash: BOD ₅ , Coliform
6	Sludge Screening: Volatile Solids, % Moisture	14	Dewatering Centrifuge Feed Loop (76 DE 2502): Total Solids	21	Digested Sludge from PLWTP (80 AU 9009): Total Solids, Volatile Solids, pH, Iron
7	Thickened Screen Sludge: Total Sludge, Volatile Solids	15		22	Digested Sludge from DBST (80 AU 2115): Total Solids, Volatile Solids, pH
8				23	Digester Samplers: Digester#1 (80 AU 9006), Digester#2 (9007), Digester#3 (9008)
					Total Solids, Volatile Solids, pH, Alkalinity, Iron

Revision Date: 02/11/04

B. Return Stream Data Summary

This section presents the results of analyses of the Metro Biosolids Center (MBC) return stream (MBC_COMBCN) for 2009. This return stream is continuously sampled by a flow proportioned, autosampler connected to the return stream lines at MBC. Each 24-hour¹¹ composite is collected and analyzed for pH, BOD, TSS, TVSS, TS, and TVS daily. An aliquot is preserved and added to a monthly (calendar month) composite for analysis of trace metals.

The data is presented in tables of monthly averages and graphs of the monthly averages of select parameters. Tables of daily values for select parameters (such as TSS, Flow, etc.) along with graphs are also provided.



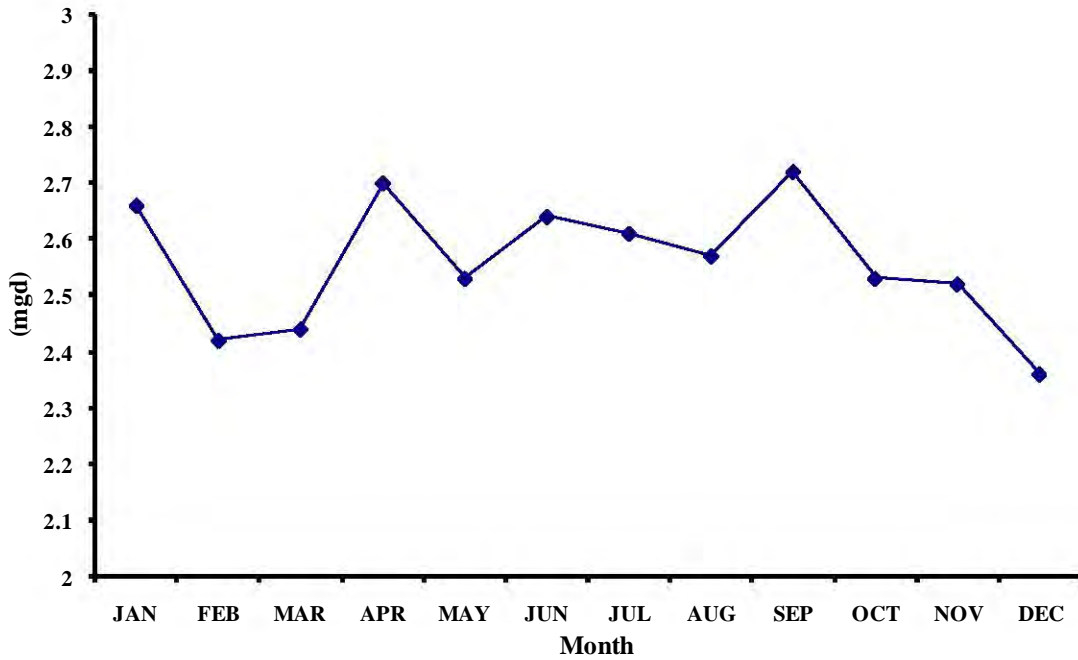
¹¹ approximately midnight to midnight each day.

Metro Biosolids Center
 Sludge Project - Annual Summary
 Combined Sludge Centrate
 From 01-JAN-2009 to 31-DEC-2009

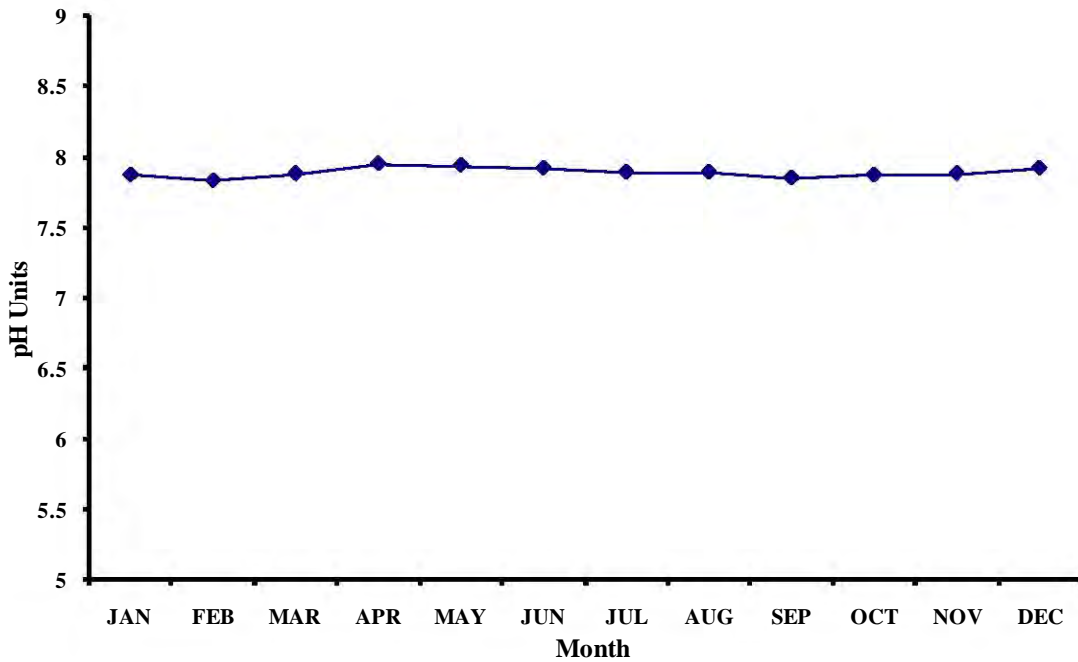
	FLOW	PH	BOD	TSS	VSS	TS	TVS	TSS Mass Emmissions (lbs/Day)
	MGD	pH Units	mg/L	mg/L	mg/L	Wt%	Wt%	
JANUARY -2009	2.66	7.87	385	1260	828	0.33	42	27952
FEBRUARY -2009	2.42	7.83	214	527	361	0.31	40	10636
MARCH -2009	2.44	7.88	241	507	339	0.32	41	10317
APRIL -2009	2.70	7.95	249	642	478	0.31	43	14457
MAY -2009	2.53	7.94	318	1190	830	0.38	49	25109
JUNE -2009	2.64	7.92	338	1110	786	0.42	52	24440
JULY -2009	2.61	7.89	321	858	618	0.39	50	18676
AUGUST -2009	2.57	7.89	337	1050	734	0.41	51	22505
SEPTEMBER-2009	2.72	7.85	309	1150	820	0.43	51	26088
OCTOBER -2009	2.53	7.87	243	646	468	0.36	47	13631
NOVEMBER -2009	2.52	7.88	393	834	600	0.32	45	17528
DECEMBER -2009	2.36	7.92	237	681	479	0.32	42	13404
Average	2.56	7.89	299	871	612	0.36	46	18729

'Average' = Annual average of Monthly Averages.

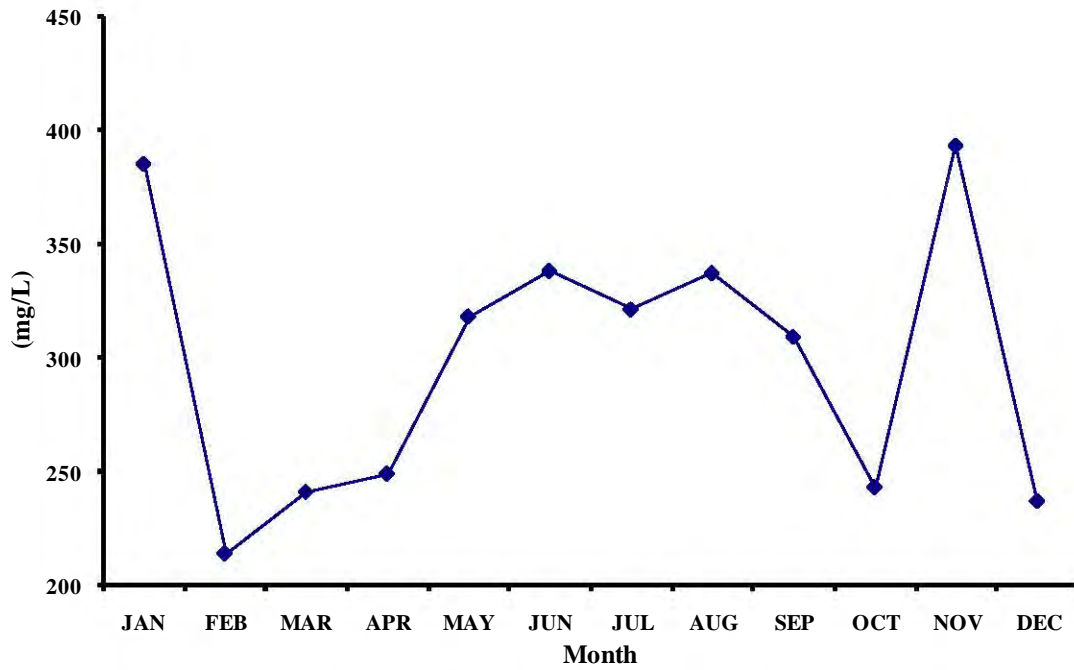
**MBC Combined Centrate
2009 Monthly Averages - Flow (mgd)**



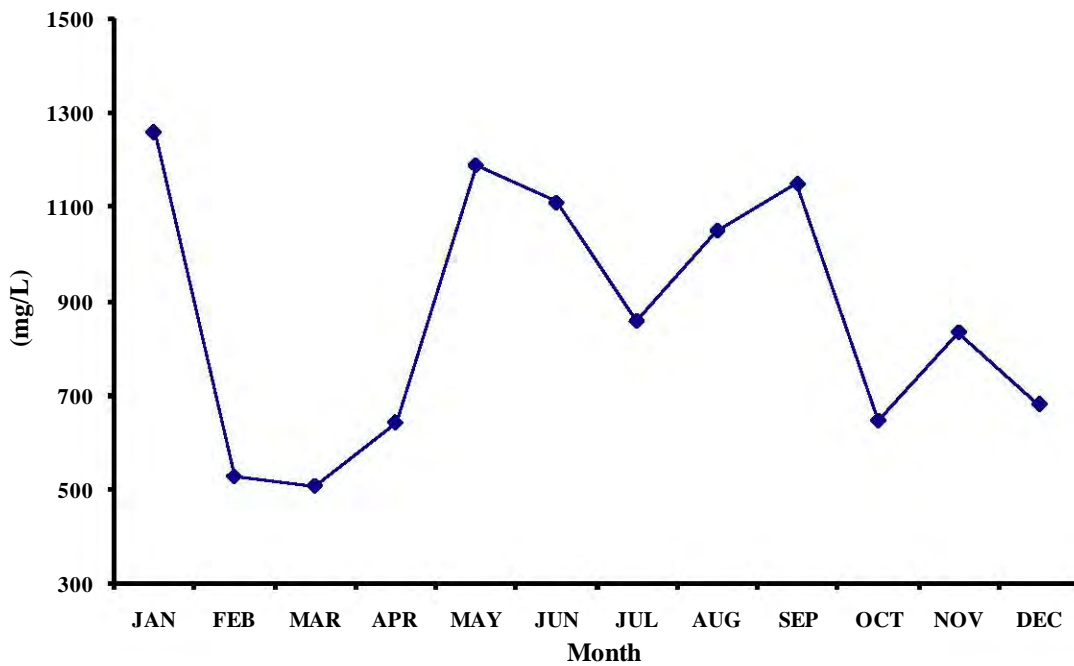
**MBC Combined Centrate
2009 Monthly Averages - pH**



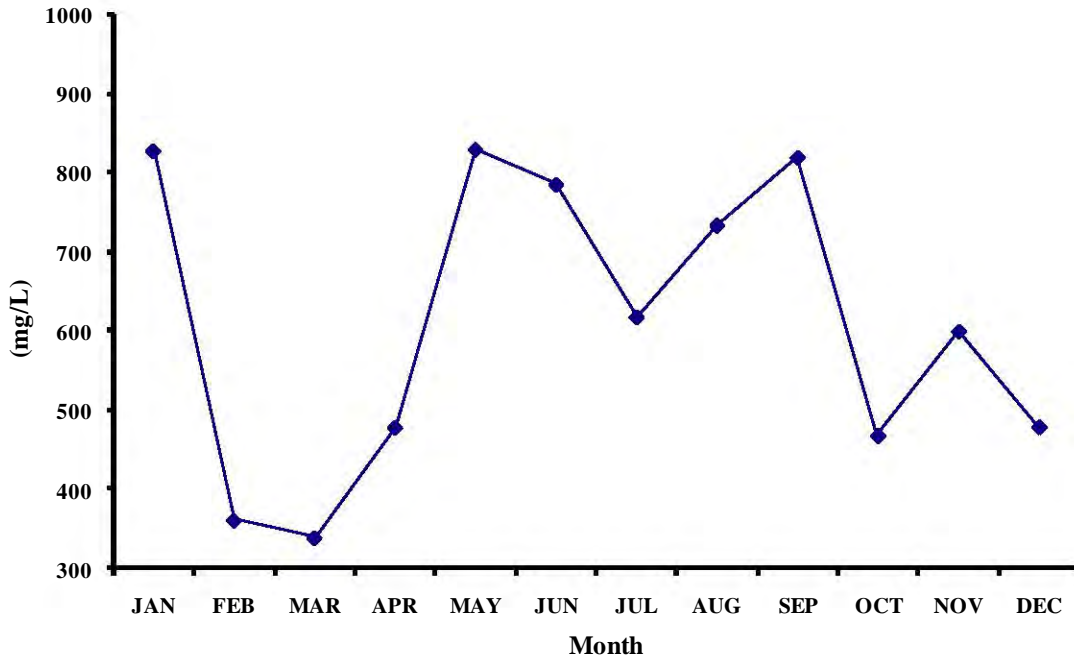
**MBC Combined Centrate
2009 Monthly Averages - BOD (mg/L)**



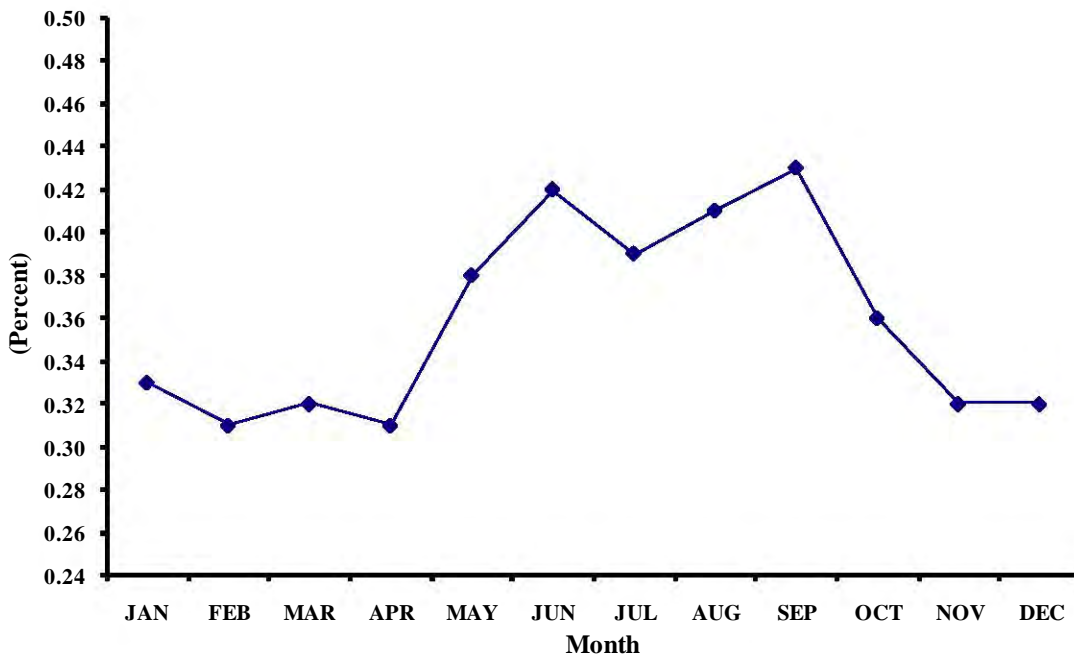
**MBC Combined Centrate
2009 Monthly Averages - TSS (mg/L)**



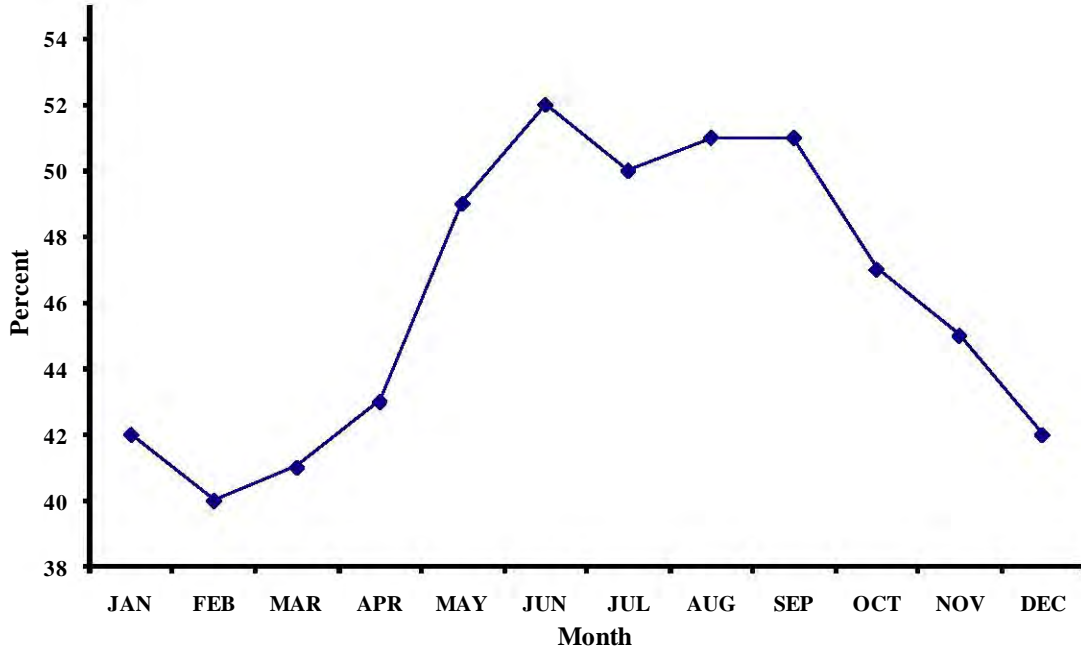
**MBC Combined Centrate
2009 Monthly Averages - VSS (mg/L)**



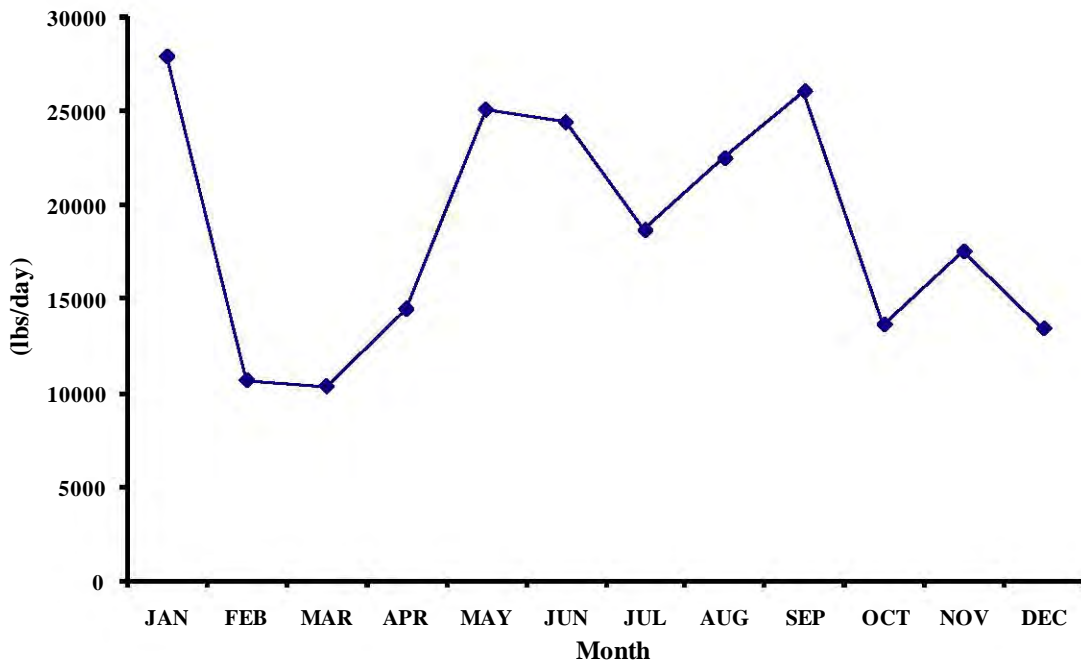
**MBC Combined Centrate
2009 Monthly Averages - Percent TS**



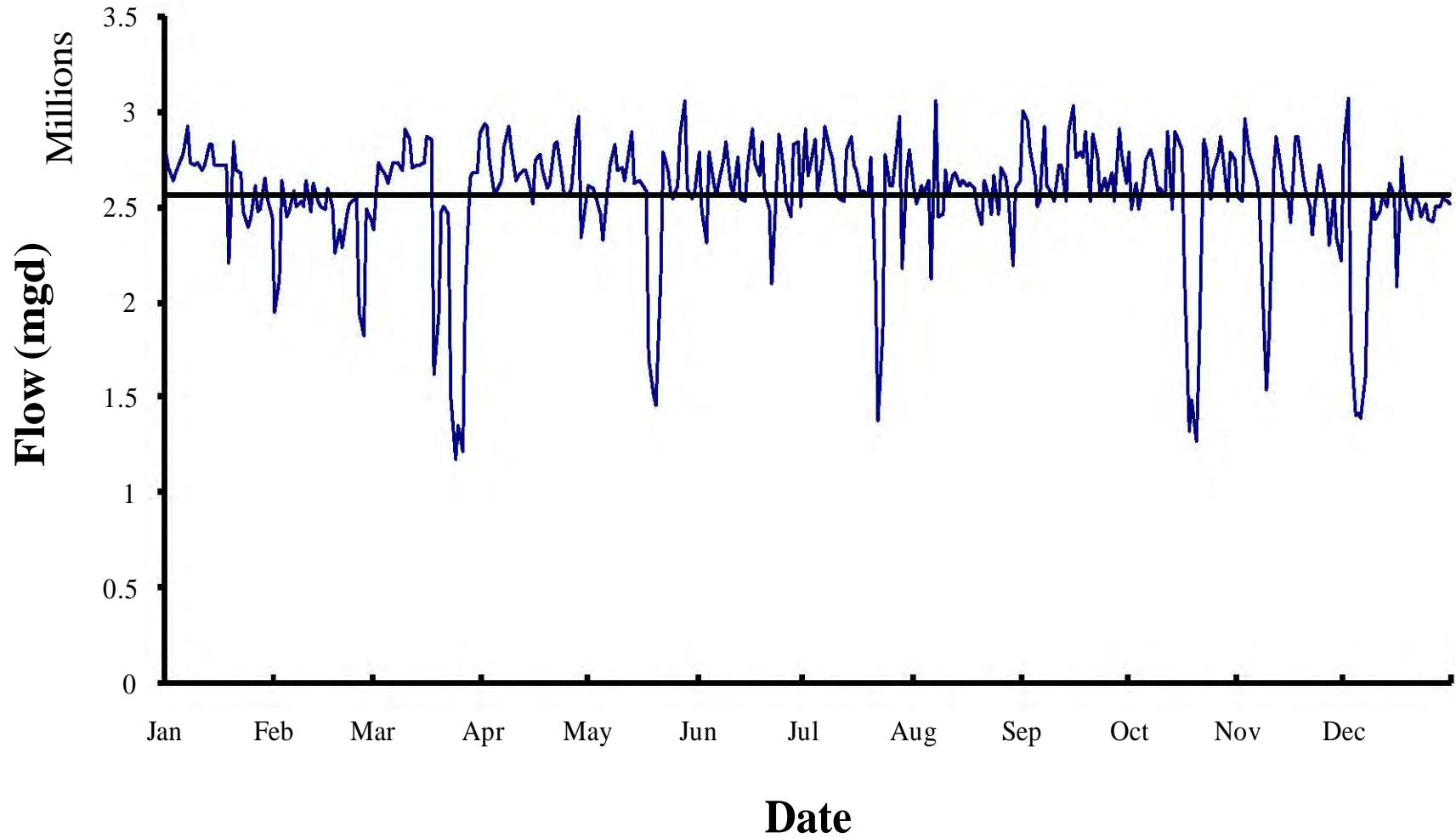
**MBC Combined Centrate
2009 Monthly Averages - Percent TVS**



**MBC Combined Centrate
2009 Monthly Averages - TSS Mass Emission (lbs/day)**



2009 MBC Return Stream Flow (mgd)



Metro Biosolids Center
2009 MBC Return Stream Daily Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.772	1.947	2.388	2.937	2.616	2.785	2.918	2.581	3.005	2.783	2.564	2.830
2	2.710	2.116	2.738	2.922	2.600	2.477	2.666	2.521	2.947	2.489	2.533	3.074
3	2.635	2.638	2.706	2.749	2.556	2.310	2.719	2.612	2.808	2.622	2.970	1.765
4	2.679	2.454	2.667	2.575	2.458	2.790	2.863	2.577	2.667	2.493	2.773	1.400
5	2.745	2.483	2.629	2.582	2.330	2.631	2.584	2.639	2.509	2.622	2.738	1.416
6	2.776	2.582	2.740	2.636	2.592	2.564	2.744	2.121	2.525	2.743	2.633	1.394
7	2.925	2.499	2.733	2.822	2.724	2.624	2.926	3.056	2.924	2.799	2.546	1.609
8	2.733	2.531	2.733	2.931	2.834	2.752	2.806	2.447	2.619	2.748	1.851	2.151
9	2.724	2.499	2.688	2.821	2.696	2.843	2.763	2.462	2.572	2.583	1.543	2.575
10	2.731	2.640	2.911	2.635	2.701	2.618	2.563	2.688	2.528	2.595	1.789	2.431
11	2.690	2.470	2.858	2.664	2.635	2.577	2.550	2.552	2.722	2.562	2.692	2.475
12	2.720	2.621	2.712	2.688	2.716	2.760	2.532	2.664	2.719	2.903	2.870	2.558
13	2.836	2.532	2.715	2.699	2.902	2.538	2.798	2.677	2.530	2.492	2.702	2.500
14	2.833	2.506	2.726	2.594	2.627	2.534	2.871	2.605	2.899	2.903	2.600	2.626
15	2.726	2.490	2.730	2.520	2.644	2.716	2.726	2.642	3.037	2.873	2.558	2.555
16	2.726	2.600	2.874	2.753	2.630	2.915	2.687	2.612	2.764	2.797	2.424	2.083
17	2.723	2.499	2.860	2.773	2.586	2.737	2.556	2.624	2.788	2.153	2.865	2.757
18	2.718	2.255	1.614	2.697	1.702	2.670	2.588	2.602	2.763	1.319	2.876	2.592
19	2.201	2.378	1.932	2.600	1.514	2.849	2.557	2.500	2.900	1.478	2.682	2.516
20	2.837	2.285	2.473	2.622	1.452	2.583	2.768	2.405	2.525	1.266	2.597	2.434
21	2.692	2.468	2.501	2.836	2.131	2.490	2.103	2.636	2.887	1.684	2.503	2.565
22	2.682	2.512	2.467	2.840	2.795	2.095	1.381	2.559	2.757	2.861	2.350	2.516
23	2.483	2.528	1.493	2.670	2.695	2.631	1.832	2.469	2.558	2.809	2.506	2.456
24	2.391	2.550	1.171	2.553	2.589	2.880	2.776	2.673	2.649	2.540	2.715	2.513
25	2.430	1.950	1.354	2.573	2.540	2.697	2.619	2.467	2.591	2.689	2.652	2.436
26	2.611	1.826	1.211	2.598	2.608	2.524	2.613	2.712	2.678	2.776	2.502	2.428
27	2.478	2.486	2.048	2.895	2.889	2.455	2.845	2.657	2.532	2.865	2.295	2.509
28	2.491	2.434	2.652	2.982	3.066	2.827	2.983	2.554	2.907	2.768	2.569	2.510
29	2.648	2.388	2.682	2.340	2.603	2.840	2.180	2.197	2.771	2.536	2.336	2.545
30	2.538		2.674	2.535	2.547	2.508	2.698	2.605	2.632	2.784	2.221	2.536
31	2.454		2.886		2.566		2.806	2.635		2.751		2.514
Avg	2.656	2.420	2.438	2.701	2.534	2.641	2.614	2.573	2.724	2.525	2.515	2.363
Min	2.201	1.826	1.171	2.340	1.452	2.095	1.381	2.121	2.509	1.266	1.543	1.394
Max	2.925	2.640	2.911	2.982	3.066	2.915	2.983	3.056	3.037	2.903	2.970	3.074

POINT LOMA WASTEWATER TREATMENT PLANT
METRO BIOSOLIDS CENTER
ANNUAL SLUDGE CENTRATE COMPOSITES
Trace Metals

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

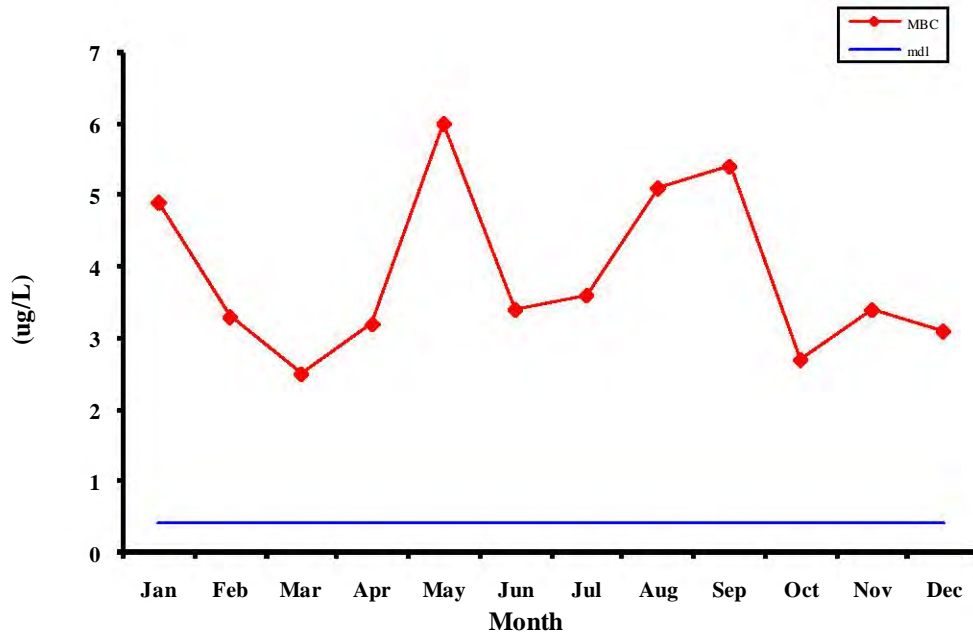
Source:		MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:		31-JAN-2009	28-FEB-2009	31-MAR-2009	30-APR-2009	31-MAY-2009	30-JUN-2009
Sample ID:		P460095ts	P463455	P467342	P470800	P474223	P477783
=====	=====	=====	=====	=====	=====	=====	=====
Aluminum	47 UG/L	3680	1550	1360	1870	5290	4700
Antimony	2.9 UG/L	4.7	5.7	ND	ND	3.7	3.1
Arsenic	.4 UG/L	4.9	3.3	2.5	3.2	6.0	3.4
Barium	.039 UG/L	323	182	163	225	466	391
Beryllium	.022 UG/L	0.03	0.06	0.07	0.18	0.33	0.26
Cadmium	.53 UG/L	ND	ND	ND	ND	1.0	1.7
Chromium	1.2 UG/L	28	18	13	22	64	58
Cobalt	.85 UG/L	3.7	3.6	3.6	3.8	6.0	4.3
Copper	2 UG/L	381	172	167	256	664	567
Iron	37 UG/L	64400	47500	26700	33800	75600	76300
Lead	2 UG/L	12	6	5	7	18	16
Manganese	.24 UG/L	471	474	429	381	473	567
Mercury	.09 UG/L	0.57	0.12	0.27	0.45	0.63	0.63
Molybdenum	.89 UG/L	14.7	8.6	8.7	10.4	21.3	21.4
Nickel	.53 UG/L	38	38	24	32	66	68
Selenium	.28 UG/L	4.28	2.95	2.62	3.77	7.66	5.75
Silver	.4 UG/L	3	1	1	2	7	7
Thallium	3.9 UG/L	ND	ND	ND	ND	ND	ND
Vanadium	.64 UG/L	9.4	4.0	3.8	5.9	17.3	14.9
Zinc	2.5 UG/L	465	210	193	316	825	652

Source:		MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:		31-JUL-2009	31-AUG-2009	30-SEP-2009	31-OCT-2009	30-NOV-2009	31-DEC-2009
Sample ID:		P482162ts	P485452	P491054	P494995	P498303	P501906
=====	=====	=====	=====	=====	=====	=====	=====
Aluminum	47 UG/L	3290	4590	4200	1750	2810	2260
Antimony	2.9 UG/L	ND	3.0	5.8	ND	3.3	ND
Arsenic	.4 UG/L	3.6	5.1	5.4	2.7	3.4	3.1
Barium	.039 UG/L	296	368	380	185	234	223
Beryllium	.022 UG/L	0.10	0.19	0.30	0.11	0.05	0.12
Cadmium	.53 UG/L	ND	0.6	1.3	ND	<0.5	ND
Chromium	1.2 UG/L	25	37	47	15	23	24
Cobalt	.85 UG/L	4.3	5.0	5.0	4.5	3.9	4.5
Copper	2 UG/L	421	572	555	230	340	262
Iron	37 UG/L	56000	70400	73100	43500	53800	48200
Lead	2 UG/L	11	16	16	8	9	8
Manganese	.24 UG/L	427	503	559	420	420	425
Mercury	.09 UG/L	0.44	0.50	0.45	0.26	0.53	0.39
Molybdenum	.89 UG/L	14.3	19.4	21.6	8.9	12.6	10.3
Nickel	.53 UG/L	38	46	66	33	36	41
Selenium	.28 UG/L	4.82	6.17	5.93	3.02	3.75	3.70
Silver	.4 UG/L	4	5	3	ND	2	2
Thallium	3.9 UG/L	ND	ND	ND	ND	ND	ND
Vanadium	.64 UG/L	9.5	13.6	11.7	2.6	7.6	6.7
Zinc	2.5 UG/L	484	692	700	279	430	336

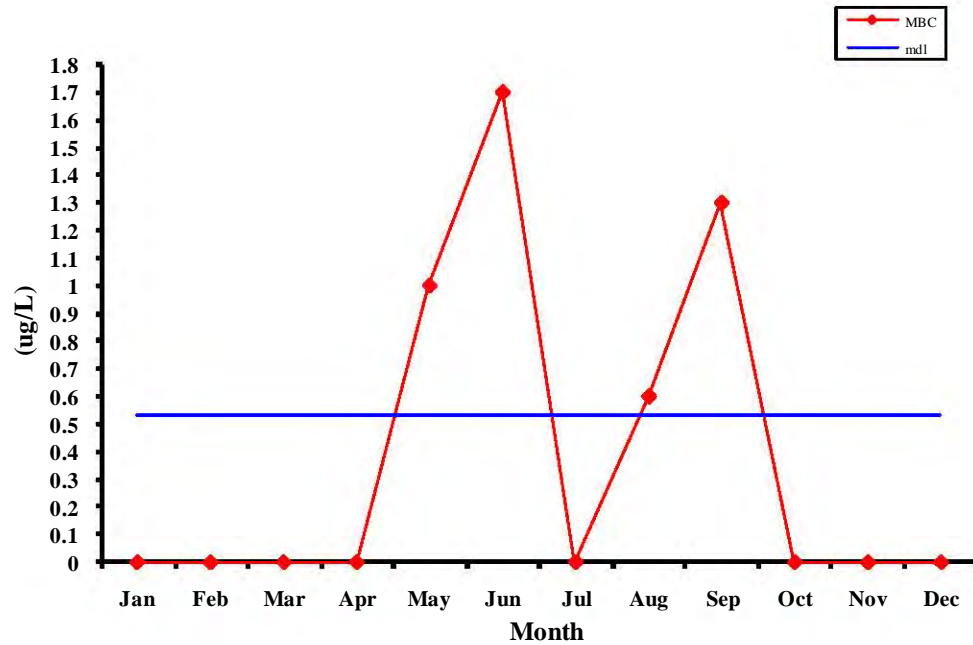
ND= Not Detected
NA= Not Analyzed
NS= Not Sampled
NR= Not Required

MBC_COMBCN= Metro Biosolids Center Combined Sludge Centrate.

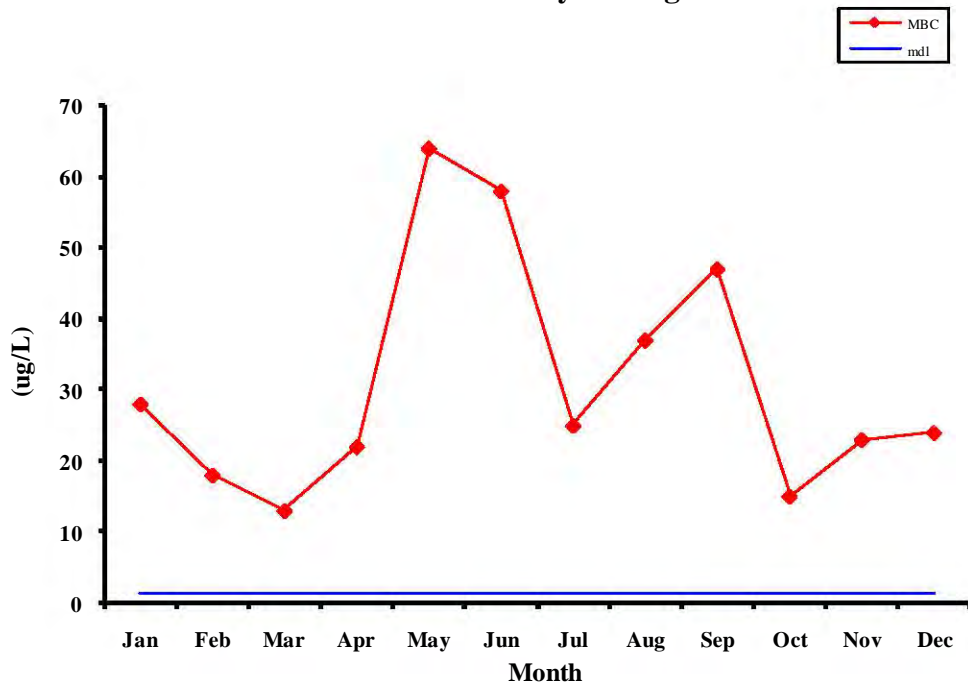
MBC_COMBCN
Arsenic
2009 Monthly Averages



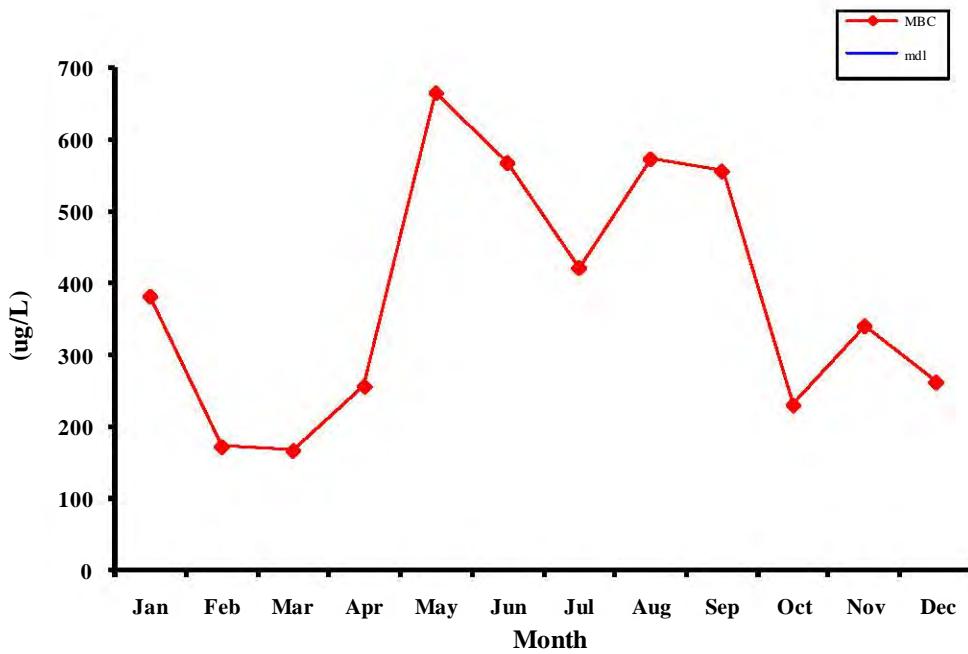
MBC_COMBCN
Cadmium
2009 Monthly Averages



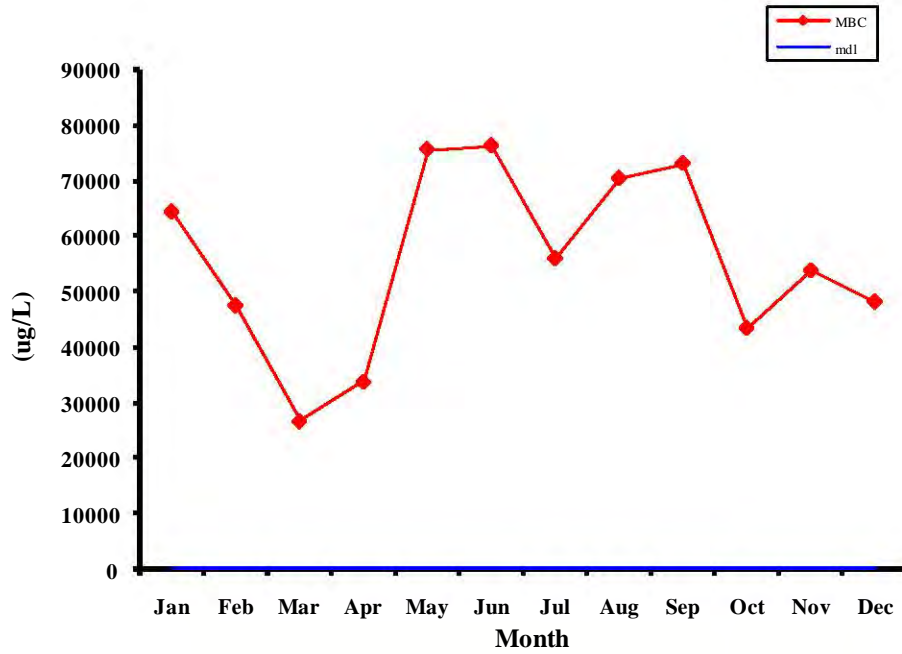
**MBC_COMBCN
Chromium
2009 Monthly Averages**



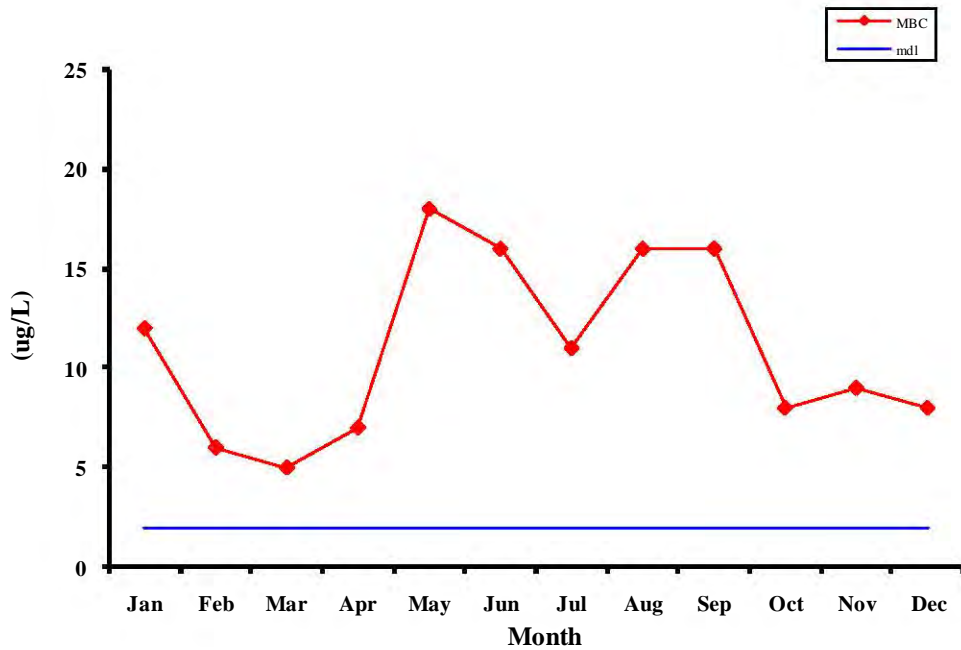
**MBC_COMBCN
Copper
2009 Monthly Averages**



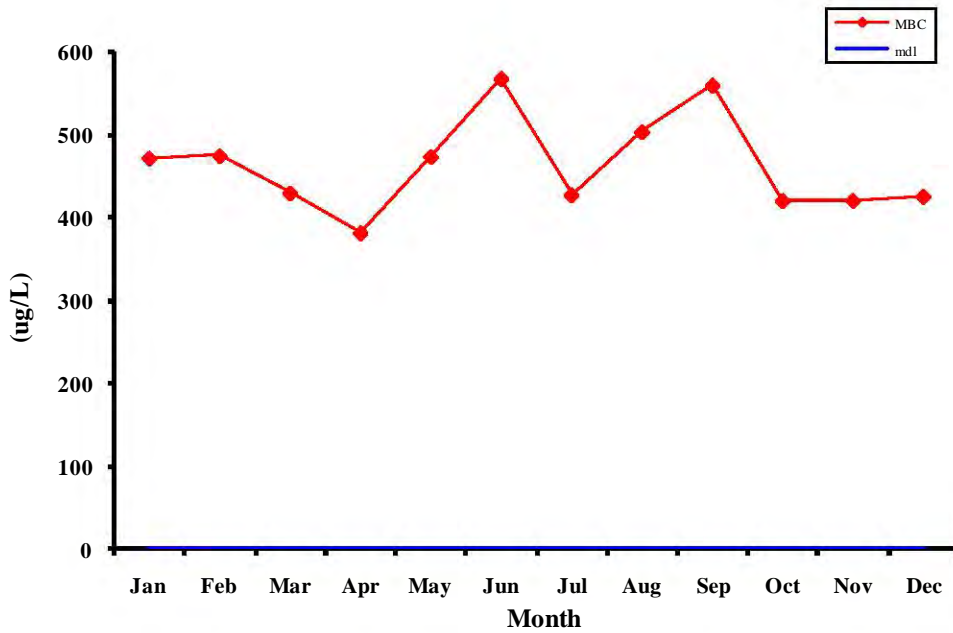
MBC_COMBCN
Iron
2009 Monthly Averages



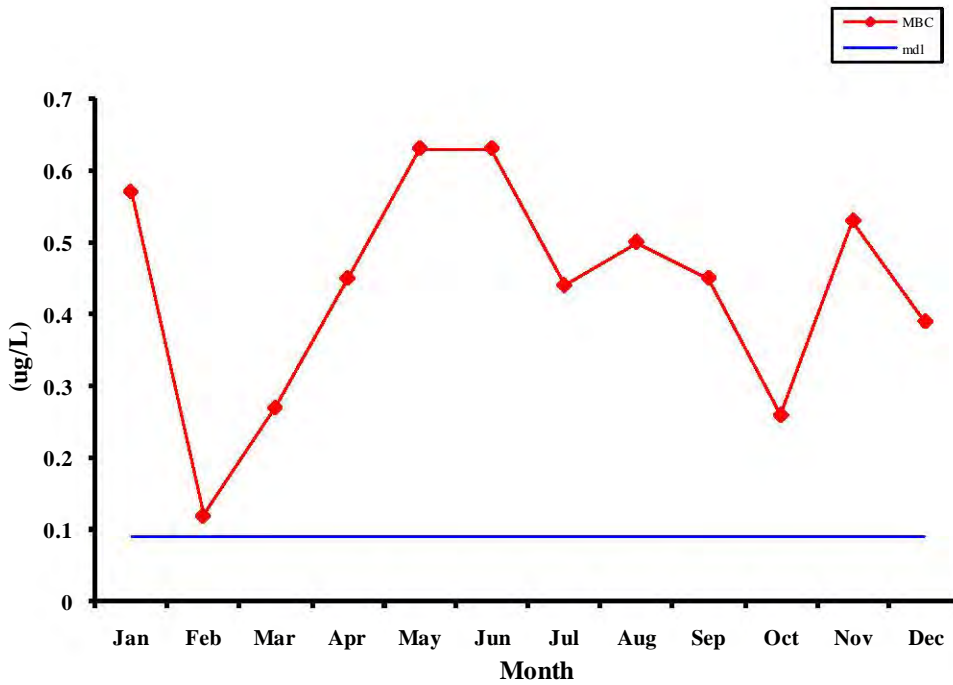
MBC_COMBCN
Lead
2009 Monthly Averages



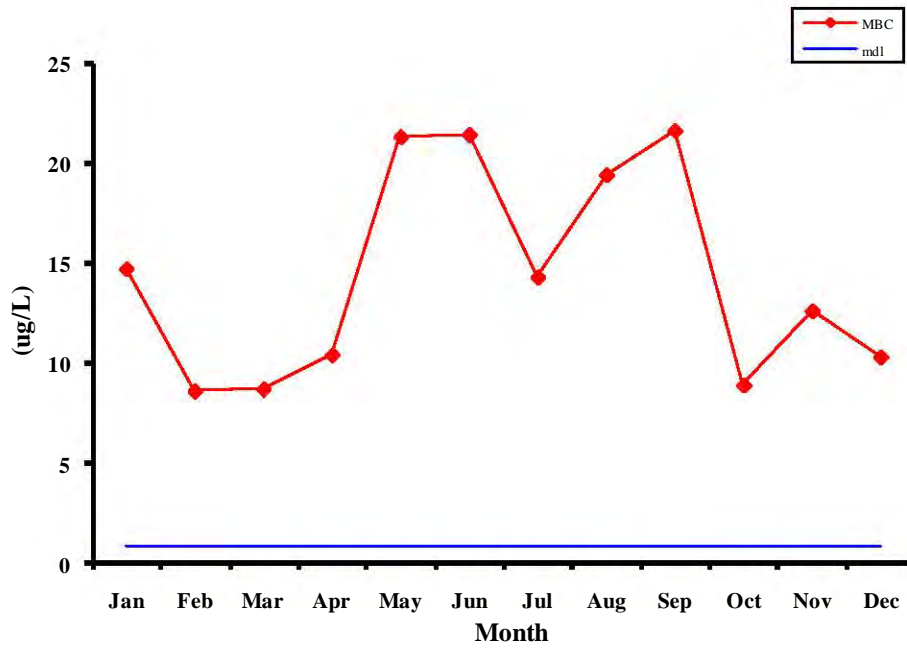
MBC_COMBCN
Manganese
2009 Monthly Averages



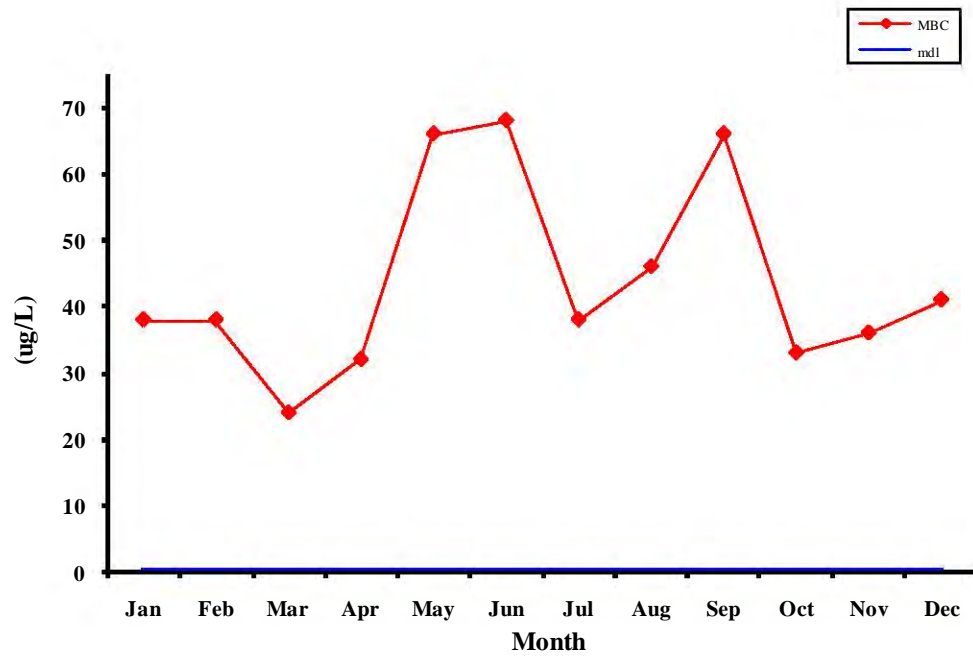
MBC_COMBCN
Mercury
2009 Monthly Averages



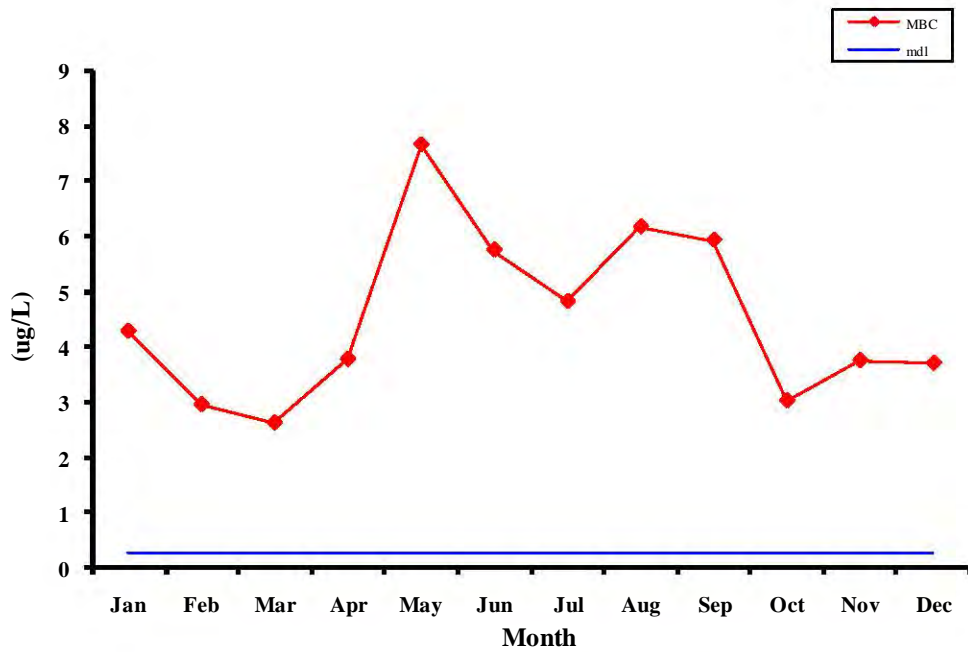
**MBC_COMBCN
Molybdeum
2009 Monthly Averages**



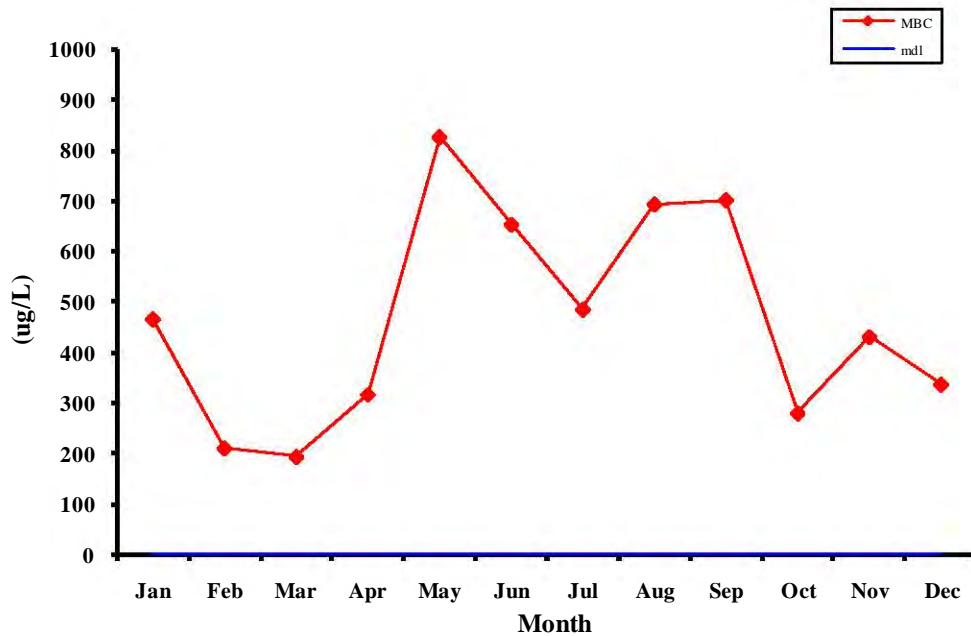
**MBC_COMBCN
Nickel
2009 Monthly Averages**



MBC_COMBCN
Selenium
2009 Monthly Averages



MBC_COMBCN
Zinc
2009 Monthly Averages



C. MBC Digester and Digested Sludge Data Summary

Metro Biosolids Center Annual Report Digesters

From 01-Jan-2009 to 31-Dec-2009

Digester 1

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2009	OUT OF SERVICE							
FEBRUARY -2009	OUT OF SERVICE							
MARCH -2009	OUT OF SERVICE							
APRIL -2009	OUT OF SERVICE							
MAY -2009	OUT OF SERVICE							
JUNE -2009	OUT OF SERVICE							
JULY -2009	OUT OF SERVICE							
AUGUST -2009	OUT OF SERVICE							
SEPTEMBER-2009	OUT OF SERVICE							
OCTOBER -2009	OUT OF SERVICE							
NOVEMBER -2009	OUT OF SERVICE							
DECEMBER -2009	OUT OF SERVICE							
Average:	*	*	*	*	*	*	*	*

Digester 2

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2009	OUT OF SERVICE							
FEBRUARY -2009	OUT OF SERVICE							
MARCH -2009	OUT OF SERVICE							
APRIL -2009	OUT OF SERVICE							
MAY -2009	OUT OF SERVICE							
JUNE -2009	OUT OF SERVICE							
JULY -2009	OUT OF SERVICE							
AUGUST -2009	OUT OF SERVICE							
SEPTEMBER-2009	OUT OF SERVICE							
OCTOBER -2009	OUT OF SERVICE							
NOVEMBER -2009	OUT OF SERVICE							
DECEMBER -2009	OUT OF SERVICE							
Average:	*	*	*	*	*	*	*	*

Digester 3

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2009	7.15	2.2	68.7	2670	88	60.4	39.6	26
FEBRUARY -2009	7.29	2.2	68.6	2510	83	60.8	39.2	18
MARCH -2009	7.23	2.1	68.4	2480	93	60.5	39.5	27
APRIL -2009	7.29	2.3	67.1	2490	77	60.3	39.7	26
MAY -2009	7.26	7.4	68.1	2460	79	60.7	39.2	24
JUNE -2009	7.25	2.4	68.9	2360	82	60.4	39.5	26
JULY -2009	7.16	2.4	69.4	2360	87	60.5	39.5	24
AUGUST -2009	7.14	2.6	69.6	2420	88	60.7	39.3	24
SEPTEMBER-2009	7.16	2.5	67.6	2240	83	60.6	39.4	24
OCTOBER -2009	7.14	2.3	67.4	2210	87	61.2	38.8	21
NOVEMBER -2009	7.19	2.3	67.6	2310	80	60.6	39.3	22
DECEMBER -2009	7.20	2.3	66.9	2480	85	61.1	38.8	22
Average:	7.21	2.8	68.2	2416	84	60.7	39.3	24

D. Gas Production

Metro Biosolids Center Annual Summary

Gas Report
From 01-JAN-2009 TO 31-DEC-2009

Daily Monthly Averages

GAS PRODUCTION (x1000 Cu. Ft.)				GAS CONSUMPTION (x1000 Cu. Ft.)			
Month	DIG 1	DIG 2	DIG 3	Total Gas Production	GAS FLARES	GAS COGENERATION	Total Gas Consumption
01			298,289.5	298,289.5	4,250	394,893	399,144
02			272,940.5	272,940.5	1,779	356,633	358,412
03			282,128.4	282,128.4	1,485	336,244	337,729
04			326,925.7	326,925.7	2,441	394,390	396,830
05			307,688.6	307,688.6	621	379,750	380,371
06			309,709.1	309,709.1	2,471	399,713	402,184
07			256,768.0	256,768.0	7,260	359,755	367,015
08			281,955.4	281,955.4	1,661	396,448	398,109
09			255,257.9	255,257.9	6,209	372,377	378,586
10			235,229.2	235,229.2	2,678	352,741	355,419
11			256,750.8	256,750.8	1,144	373,961	375,105
12			250,362.3	250,362.3	939	339,354	340,294
avg			277,833.8	277,833.8	2,745	371,355	374,100

Monthly Totals -2009

GAS PRODUCTION (x1000 Cu. Ft.)				GAS CONSUMPTION (x1000 Cu. Ft.)			
Month	DIG 1	DIG 2	DIG 3	Total Gas Production	Gas Flares	Gas Cogeneration	Total Gas Consumption
01			9,246,976.0	9,246,976.0	131,764	12,241,696	12,373,460
02			7,642,333.0	7,642,333.0	49,802	9,985,727	10,035,529
03			8,745,979.0	8,745,979.0	46,023	10,423,578	10,469,601
04			9,807,772.0	9,807,772.0	73,215	11,831,688	11,904,903
05			9,538,346.0	9,538,346.0	19,256	11,772,252	11,791,508
06			9,291,272.0	9,291,272.0	74,115	11,991,403	12,065,518
07			7,959,808.0	7,959,808.0	225,054	11,152,413	11,377,467
08			8,740,616.0	8,740,616.0	51,501	12,289,876	12,341,377
09			7,657,738.0	7,657,738.0	186,283	11,171,307	11,357,590
10			7,292,105.0	7,292,105.0	83,012	10,934,976	11,017,988
11			7,702,525.0	7,702,525.0	34,318	11,218,831	11,253,149
12			7,761,232.0	7,761,232.0	29,123	10,519,977	10,549,100
avg			8,448,891.8	8,448,891.8	83,622	11,294,477	11,378,099
sum			101,386,702.0	101,386,702.0	1,003,466	135,533,724	136,537,190

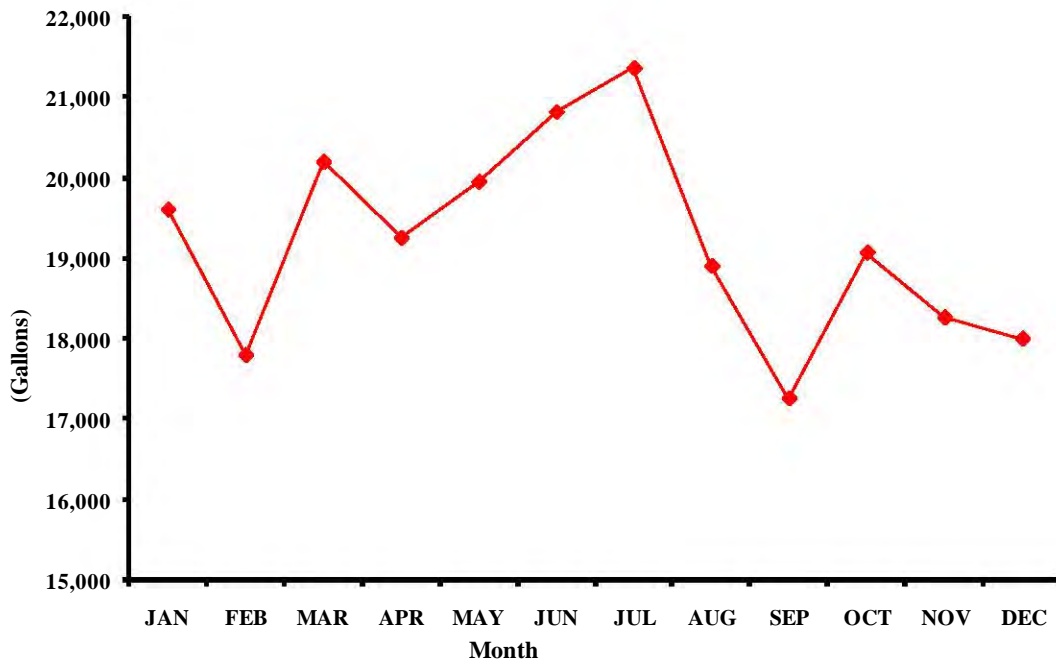
E. Chemical Usage

Metro Biosolids Center - Monthly Chemical Usage Report From 01-JAN-2009 to 31-DEC-2009

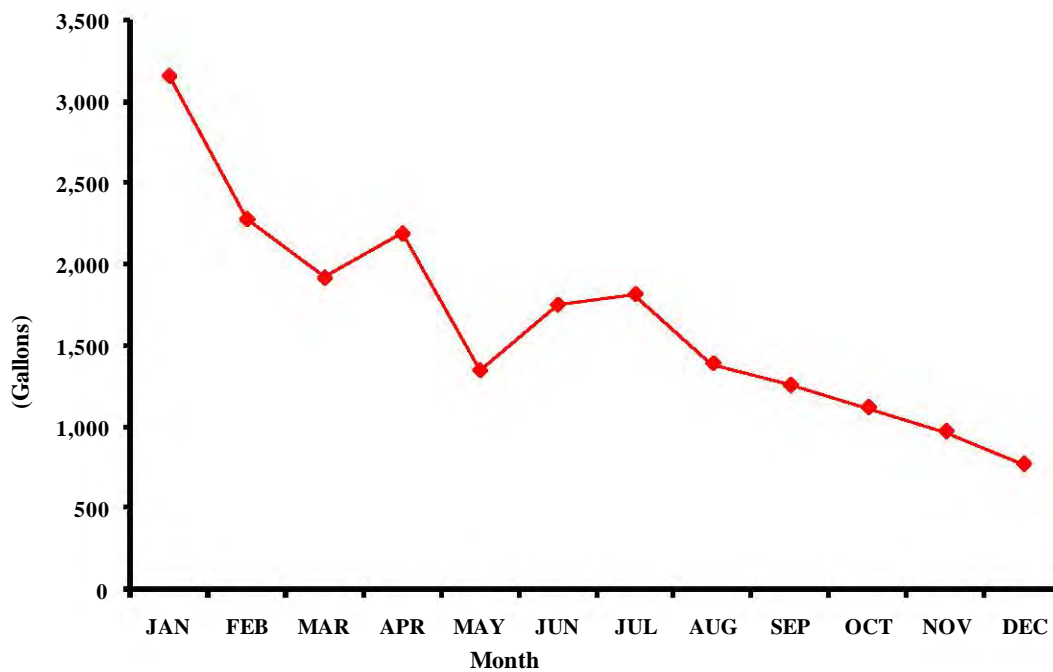
MON	Polymer Gallons	Ferric Chloride Gallons	Ferrous Chloride Gallons	Sodium Hydroxide Gallons	Hypochlorite Gallons	Sulfuric Acid Gallons
01	138,269	19,606	12,447	3,162	7,171	0
02	115,706	17,798	8,648	2,280	4,671	0
03	127,108	20,200	12,689	1,920	4,899	0
04	131,399	19,253	12,089	2,191	6,711	0
05	129,926	19,949	11,922	1,349	6,796	0
06	131,532	20,818	12,252	1,755	6,407	0
07	140,881	21,364	12,011	1,819	8,486	0
08	134,581	18,905	11,397	1,393	6,146	0
09	154,179	17,259	10,431	1,259	6,004	0
10	147,042	19,071	11,235	1,123	4,903	0
11	134,556	18,266	10,236	976	3,361	0
12	135,127	18,002	10,028	775	3,352	0
avg	135,025	19,208	11,282	1,667	5,742	0
sum	1,620,304	230,490	135,382	20,001	68,907	0

F. Graphs of Monthly Chemical Usage

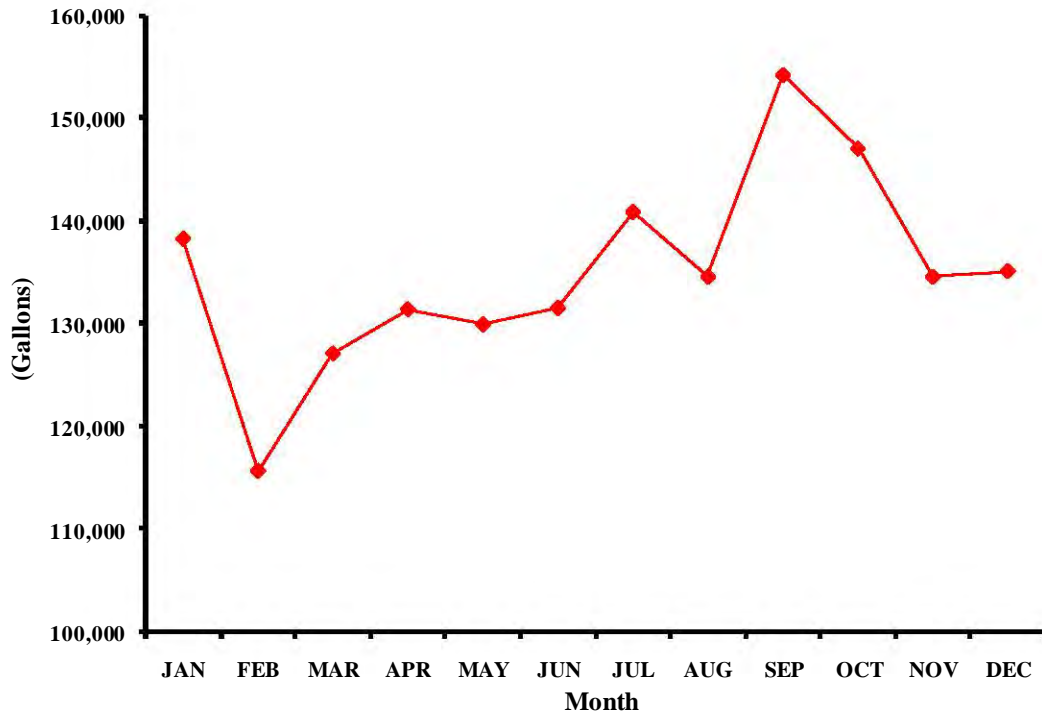
2009 Ferric Chloride Usage at MBC



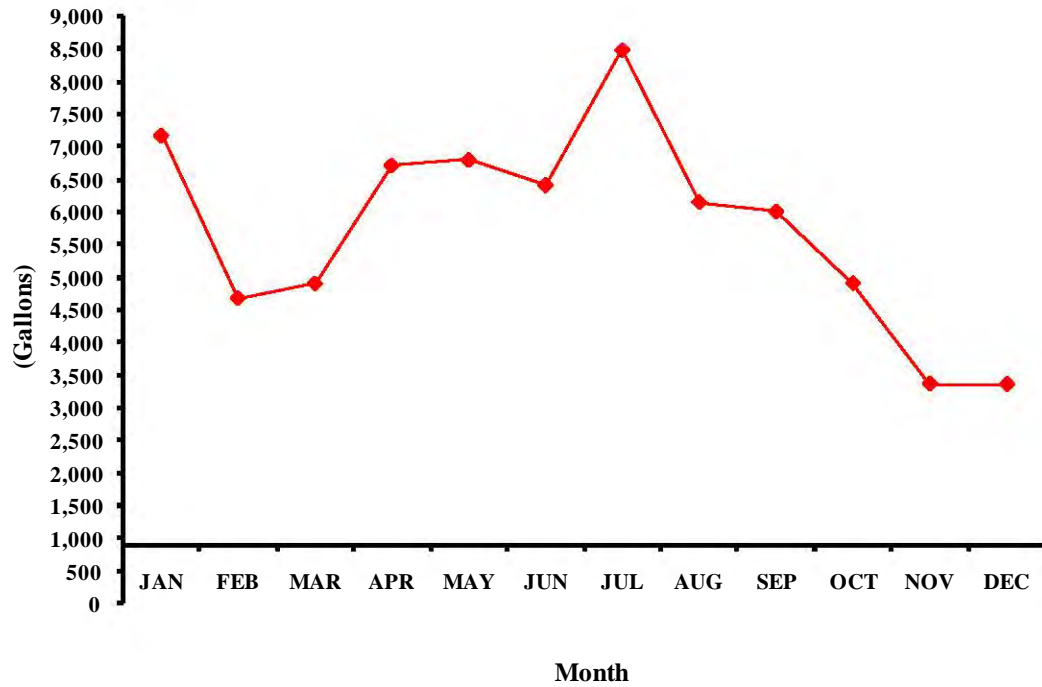
2009 Caustic Usage at MBC



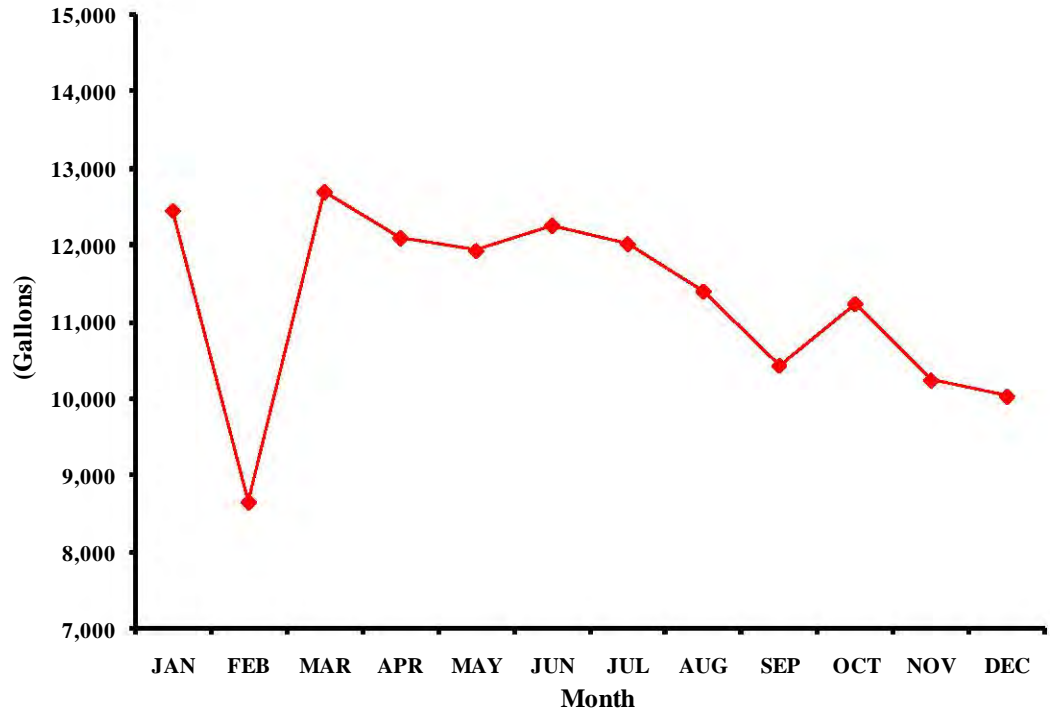
2009 Polymer Usage at MBC



2009 Sodium Hypochlorite Usage at MBC



2009 Ferrous Chloride Usage at MBC



G. Solids Handling Annual Report

This section contains an excerpt from the **2009 Annual Biosolids Beneficial Use & Disposal Report** and is included here for reference and continuity.

Facilities:

<u>Sources of biosolids:</u>	<u>Biosolids treatment and processing:</u>
Point Loma Wastewater Treatment Plant (PLWWTP) 1902 Gatchell Rd., San Diego, CA	Metro Biosolids Center (MBC) 5240 Convoy Street, San Diego, CA 92111
North City Water Reclamation Plant (NCWRP) 4949 Eastgate Mall, San Diego, CA 92121	Point Loma Wastewater Treatment Plant (PLWWTP) 1902 Gatchell Rd., San Diego, CA

The Point Loma Wastewater Treatment Plant (PLWWTP) and the North City Water Reclamation Plant produced and disposed of 119,370 wet tons/33,808 dry tons (30,671 dry metric tons) of digested sludge (biosolids) in 2009.

All digested sludge produced at the Pt. Loma WWTP was pumped to the Metro Biosolids Center (MBC) for dewatering by centrifuges. The biosolids were then hauled to a disposal site (Local Landfill) or beneficial use site. During this reporting period all of the raw sludge produced at the North City Water Reclamation Plant (NCWRP) was diverted to the Metro Biosolids Center for thickening, dewatering, digestion and blended with the digested solids from the PLWWTP prior to dewatering. The MBC Monthly Biosolids Processing Reports include the biosolids processed from the PLWWTP and the NCWRP. Copies of the MBC Monthly Biosolids Processing Reports and the MBC Biosolids Beneficial Use and Disposal Monthly Summary Reports detailing daily biosolids processing and beneficial use/disposal are included as Enclosures 1 and 5, respectively.

All of the sludge/biosolids produced by the City of San Diego, Pt. Loma Wastewater Treatment Plant and North City Water Reclamation Plant were dewatered at the Metro Biosolids Center(MBC) and disposition is summarized in the following table.

Disposition	Wet tons (short)	Dry tons¹²	Dry metric tons
Disposal in sanitary landfill	896	271	246
Beneficial reuse as Alternative Daily Cover (ADC) at landfill	95,024	26,902	24,406
Land application in Arizona	23,450	6,635	6,019

¹² (based on sum of monthly total tons)

All Biosolids produced by the City of San Diego were treated to Class B standards through Anaerobic Digestion for a minimum of 15 days at a temperature of 35 to 55 degrees Centigrade (Alternative 3, Process 3). Vector Attraction requirements were achieved by reducing the volatile solids content a minimum of 38 percent (Option 1).

Land Applier: Solid Solutions, LLC
Address: 12812 Valley View St, #9, Garden Grove, CA 92845
Period: January 1, 2009 - December 31, 2009
Reuse method: Direct land application. Digested dewatered sludge from the MBC centrifuges were land applied directly to fields in Yuma County, AZ. The sludge was certified by the City of San Diego as meeting Class B pathogen and vector attraction reduction requirements of 40 CFR 503. Copies of the City of San Diego's certifications (which also serve as notification of nitrogen content) are included as Enclosure 2. Copies of Solid Solutions' certification statements are included as Enclosures 10 & 11.

The MBC provides two essential treatment processes, thickening and digestion of the raw solids from the NCWRP and dewatering of biosolids generated at the NCWRP and the PLWWTP. The digested biosolids from the PLWWTP are pumped to MBC in a 17 mile pipeline into one of the two storage tanks on site where it is blended with the digested biosolids from the NCWRP. Before these biosolids are sent to the dewatering process polymer and ferric chloride are added to condition the biosolids, which enhances the dewaterability of the biosolids and minimizes the potential of scale formation.

Eight dewatering centrifuges are used to separate the liquid and solids fractions of the conditioned biosolids. The liquid fraction, (centrate) is returned to the PLWWTP via the Rose Canyon Interceptor and the solids recovered, (cake), is pumped to one of the eight storage silos on site before it is loaded into trucks for disposal and beneficial use as Alternative Daily Cover at Otay Landfill or beneficially used for land application in Yuma County, Arizona, Tables 1B and Table 1C.

The digested biosolids, centrate and dewatered cake are sampled on a daily basis to ensure regulatory compliance and to track plant process performance. Grab samples are collected daily on the incoming biosolids from the PLWWTP and the blended biosolids, which includes the digested biosolids from the NCWRP. The operations staff also collect a twenty-four hour composite sample from the centrate return stream from the dewatering process and from the blended centrate return stream that includes the centrate flow from the thickening and dewatering processes.

Daily grab samples of dewatered cake are collected from each individual dewatering centrifuge that are in operation during the 24 hour period , and a portion of each of these grab samples are combined to provide a daily composite of dewatered cake produced. All sampling at MBC is performed by Wastewater Plant Operators who are certified by the State of California and in conformance with established sampling techniques listed in Standard Methods.

Because the dewatered cake samples are a daily composite and the Land Applier's (Solids Solutions) samples are a monthly grab sample, the dry ton calculations may differ slightly.

In addition to the monthly analyses of 503 and California Title 22 analyses by our California certified laboratory, and in accordance with the Arizona Department of Environmental Quality (ADEQ), grab samples were delivered to an Arizona certified laboratory. Legend Technical Services of Arizona, Inc, 17631 North 25th Avenue, Phoenix, AZ 85023, ADHS#AZ0004 provided EPA Part 503 Table 3 Metals and Nitrogen analysis. See Enclosure 14.

Biosolids used for all uses in 2009 continued to meet all regulatory requirements. Concentration of pollutants were all well below the limits listed in California Title 22 Hazardous Waste thresholds including TLC (Total Threshold Limit Concentration), STLC (Soluble Threshold Limit Concentration), and 40 CFR part 503.13 Table 3 "Limits for Land Application", the lower lead limit established by the California State Health and Safety Code 25157.8. It also met the A.C.C. (Arizona Administrative Code) R18-9-1005 Table 2. Monthly Average Pollutant Concentration limits.

Additional analyses, including the rest of the "priority pollutant list"¹³, were performed during 2009 and the reports of these analyses are included in Enclosure 7.

Table 1.A. Landfill location used during 2009 is as follows:

Otay Landfill 1700 Maxwell Road Chula Vista, San Diego County, CA 91911	896 wet tons (271 dry tons/246 dry metric tons, based on sum of monthly totals) disposed of from January to December 2009 at this landfill.
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No biosolids were shipped to or disposed of at a surface disposal site.

No biosolids were disposed of or reused by any other method than those listed above.

13 Includes volatile organic compounds, phenols, base/neutral organic compounds, organophosphorus pesticides, chlorinated pesticides and PCBs.

Table 1B. Biosolids Production for MBC

Table 1B. Annual Biosolids Beneficial Use & Landfill Disposal Summary

2009 Month:	Otay Landfill			Cullison Farms, Yuma, AZ Beneficial Use ² (wet Tons)	Norris Farm Aztec, Yuma County, AZ Beneficial Use ² (wet Tons)	Desert Ridge Farms Yuma, AZ Beneficial Use ² (wet Tons)	Total (wet Tons)	%TS	Total Dry Tons	Total Biosolids (dry metric tons)
	Otay Landfill Biosolids (wet Tons)	Beneficial Use ¹ (wet Tons)	Otay Landfill Total (wet Tons)							
January		8,214.05	8,214.05		1,071.91	670.04	9,956.00	30.7	3,056.49	2,772.85
February	895.99	5,713.50	6,609.49		522.07	1,133.56	8,265.12	30.3	2,504.33	2,271.93
March		7,376.09	7,376.09	1,344.16		490.99	9,211.24	29.5	2,717.32	2,465.15
April		8,671.73	8,671.73	1,795.32			10,467.05	28.3	2,962.18	2,687.29
May		7,648.15	7,648.15	1,657.61			9,305.76	27.9	2,596.31	2,355.37
June		8,976.25	8,976.25	895.09		668.34	10,539.68	27.4	2,887.87	2,619.88
July		9,489.49	9,489.49	528.85		1,156.21	11,174.55	27.7	3,095.35	2,808.10
August		7,515.13	7,515.13	1,805.96			9,321.09	27.3	2,544.66	2,308.51
September		7,816.46	7,816.46	3,516.86			11,333.32	27.6	3,128.00	2,837.72
October		8,028.54	8,028.54	1,639.53			9,668.07	28.2	2,726.40	2,473.39
November		7,316.31	7,316.31	1,963.58			9,279.89	27.5	2,551.97	2,315.15
December		8,257.83	8,257.83	2,590.32			10,848.15	28.0	3,037.48	2,755.60
Total:		95,023.53	95,919.52	17,737.28	1,593.98	4,119.14	119,369.92		33,808.35	30,670.93
Monthly Average:		7,918.63	7,993.29	1,773.73	796.99	823.83	9,947.49	28.4	2,817.36	2,555.91

¹ beneficial use as Alternative Daily Cover.

² beneficial use in Land Application.

Table 1C. 2009 Biosolids Land Application

Month	%TS	Desert Ridge , Yuma City, AZ		Norris, Yuma City, AZ		Cullison, Yuma County, AZ		Total Monthly	Total Monthly	Total Metric
		wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	wet tons	dry tons	dry tons
January	30.7	670.04	205.70	1,071.91	329.08		0.00	1,741.95	534.78	485.15
February	30.3	1,133.56	343.47	522.07	158.19		0.00	1,655.63	501.66	455.10
March	29.5	490.99	144.84		0.00	1,344.16	396.53	1,835.15	541.37	491.13
April	28.3		0.00		0.00	1,795.32	508.08	1,795.32	508.08	460.93
May	27.9		0.00		0.00	1,657.61	462.47	1,657.61	462.47	419.56
June	27.4	668.34	183.13		0.00	895.09	245.25	1,563.43	428.38	388.63
July	27.7	1,156.21	320.27		0.00	528.85	146.49	1,685.06	466.76	423.45
August	27.3		0.00		0.00	1,805.96	493.03	1,805.96	493.03	447.27
September	27.6		0.00		0.00	3,516.86	970.65	3,516.86	970.65	880.58
October	28.2		0.00		0.00	1,639.53	462.35	1,639.53	462.35	419.44
November	27.5		0.00		0.00	1,963.58	539.98	1,963.58	539.98	489.87
December	28.0		0.00		0.00	2,590.32	725.29	2,590.32	725.29	657.98
2009 Totals	Avg =28.4	4,119.14	1,197.41	1,593.98	487.26	17,737.28	4,950.12	23,450.40	6,634.80	6,019.09

Table 1D. Other Solids disposal (weights are gross wet weight)

2009 Month:	Copper Mountain Landfill Scum (Tons)	Otay Landfill Scum (Tons)	South Yuma Landfill Scum (Tons)	Miramar Landfill Grit (Tons)	Miramar Landfill Rags & Screenings (Tons)
January	21.13			196.27	575.45
February	49.67	11.38		182.41	506.28
March	17.23			187.32	622.95
April	32.87			197.46	624.95
May	30.92	7.10		191.59	595.02
June	31.21			201.16	587.29
July	14.07			200.88	494.34
August	20.70			178.84	521.55
September	32.36			206.76	558.03
October	16.01			175.69	587.45
November	31.92			131.25	534.79
December	45.15	7.20		179.11	571.40
Total:	343.24	25.68		2,228.74	6,779.50
Average:	28.60	8.56		185.73	564.96

Point Loma Wastewater Treatment Plant/Metro Biosolids Center
Sludge Project - Annual Summary
Solids Report

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

Month	Pt. Loma Raw sludge Gallons	Dry Tons	Pt.Loma Digested Sludge Gallons	Dry Tons	MBC Combined Centrate Gallons	Dry Tons	MBC Dewatered Sludge Wet Tons	Dry Tons
01	30,011,548	3,431	30,011,081	2,340	82,336,788	1,132	9,956	3,053
02	26,790,793	4,458	26,790,793	2,191	67,779,420	878	8,265	2,507
03	30,674,626	4,879	31,247,711	2,594	75,565,840	992	9,211	2,715
04	38,151,920	5,617	38,137,202	3,166	81,040,812	1,048	10,467	2,958
05	39,695,856	6,001	39,609,765	3,320	78,544,482	1,231	9,306	2,593
06	40,074,477	6,157	40,075,043	3,616	79,222,449	1,391	10,540	2,888
07	40,673,188	6,064	40,638,018	3,589	81,022,471	1,304	11,174	3,097
08	36,287,629	5,797	36,295,329	3,481	79,752,069	1,360	9,321	2,541
09	37,251,127	5,515	37,251,126	3,536	81,708,977	1,457	11,333	3,128
10	37,036,151	5,643	37,036,151	3,377	78,286,307	1,181	9,668	2,725
11	34,688,477	5,280	35,808,500	3,364	75,454,703	1,020	9,280	2,553
12	34,551,731	5,955	34,551,551	3,307	73,268,429	976	10,848	3,041
avg	35,490,627	5,400	35,621,023	3,157	77,831,896	1,164	9,947	2,817
sum	425,887,523	64,796	427,452,270	37,881	933,982,747	13,971	119,370	33,799

Solids Report - Daily Averages by Month
From 01-JAN-2009 To 31-DEC-2009

Month	Pt. Loma Raw sludge Gallons	%TS	Dry Tons	Pt.Loma Digested Sludge Gallons	%TS	Dry Tons	MBC Combined Centrate Gallons	%TS	Dry Tons	MBC Dewatered Sludge Wet Tons	%TS	Dry Tons
01	968,114	2.7	111	968,099	1.9	75	2,656,025	0.33	36.7	321	30.7	98.5
02	956,814	4.0	159	956,814	2.0	76	2,420,694	0.31	31.4	295	30.3	89.5
03	989,504	3.8	164	1,007,991	2.0	82	2,437,608	0.31	31.0	297	29.5	87.6
04	1,271,731	3.5	186	1,271,240	2.0	105	2,701,360	0.31	35.0	349	28.3	98.6
05	1,280,511	3.6	196	1,277,734	2.0	106	2,533,693	0.38	39.2	300	27.9	83.5
06	1,335,816	3.7	203	1,335,835	2.2	120	2,640,748	0.42	46.3	479	27.4	131.3
07	1,312,038	3.6	189	1,310,904	2.1	114	2,613,628	0.39	42.1	360	27.7	99.9
08	1,170,569	3.8	185	1,170,817	2.3	111	2,572,647	0.41	43.8	301	27.3	82.0
09	1,241,704	3.6	186	1,241,704	2.3	117	2,723,633	0.43	48.7	378	27.6	104.3
10	1,194,715	3.7	183	1,194,715	2.2	109	2,525,365	0.36	37.5	312	28.2	87.9
11	1,156,283	3.7	180	1,193,617	2.3	111	2,515,157	0.32	33.8	309	27.5	85.1
12	1,114,572	4.1	191	1,114,566	2.3	107	2,363,498	0.32	31.0	350	28.0	98.1
avg	1,166,031	3.7	178	1,170,336	2.1	103	2,558,671	0.36	38.0	338	28.4	95.5

Note: A ton is a "short ton" or 2000 lbs of dry solids.

Values for Wet Tons of dewatered sludge are based on calculated volumes from eight positive displacement cake pumps and are subject to inaccuracies. The mechanical condition of the cake pumps and the variability of sludge concentrations can effect the overall accuracies of these reported values.

Enclosure 7

Results of other analyses of dewatered biosolids for 2009.

Tables showing the analyses for metals (including priority pollutants), pH, total and volatile solids, pesticides & PCBs, and organic priority pollutant compounds of sewage biosolids samples taken in 2009.

POINT LOMA WASTEWATER TREATMENT PLANT
METRO BIOSOLIDS CENTER
ANNUAL DEWATERED SLUDGE COMPOSITES
Trace Metals

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

Source:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:		31-JAN-2009	28-FEB-2009	31-MAR-2009	30-APR-2009	31-MAY-2009	30-JUN-2009
Sample ID:	MDL Units	P460096	P463456	P467340	P470801	P474221	P477781
=====	=====	=====	=====	=====	=====	=====	=====
Aluminum	4 MG/KG	6720	5700	6280	6340	6180	6360
Antimony	.5 MG/KG	3.4	4.4	3.5	3.4	3.5	3.5
Arsenic	.68 MG/KG	3.56	5.13	5.58	4.47	1.62	3.13
Barium	.05 MG/KG	438	403	443	406	318	247
Beryllium	.02 MG/KG	0.16	0.38	0.42	0.54	0.38	0.33
Cadmium	.1 MG/KG	1.5	1.4	1.4	1.5	1.4	1.3
Chromium	.3 MG/KG	61	86	69	71	70	71
Cobalt	.2 MG/KG	3.1	4.2	3.6	3.9	3.9	3.8
Cyanides, Total	.1 MG/KG	NA	4.96	NA	NA	2.40	NA
Copper	.4 MG/KG	733	674	724	763	742	720
Iron	20 MG/KG	91700	83400	83800	83700	78500	76000
Lead	2 MG/KG	21	18	19	17	18	16
Manganese	.2 MG/KG	322	295	326	338	273	270
Mercury	.4 MG/KG	1.48	1.29	1.60	1.51	1.13	1.37
Molybdenum	.1 MG/KG	21	20	18	20	21	21
Nickel	.3 MG/KG	58	81	57	58	62	71
Selenium	.47 MG/KG	5.99	4.66	5.79	5.63	6.94	6.83
Silver	.07 MG/KG	9	8	8	9	9	10
Thallium	1 MG/KG	ND	ND	ND	ND	ND	ND
Vanadium	.2 MG/KG	21	20	22	20	19	18
Zinc	8 MG/KG	1000	829	898	790	964	907
Sulfides-Reactive	11 MG/KG	ND	ND	ND	ND	ND	ND
Sulfides-Total	2170 MG/KG	6520	5940	5740	9530	13300	14500
Total Nitrogen	1.1 WT%	4.33	4.08	4.60	4.67	4.65	5.23
Total Kjeldahl Nitrogen	.04 WT%	NA	3.85	NA	NA	4.68	NA
Total Volatile Solids	WT%	55.6	57.9	56.6	58.8	58.3	55.4
Total Solids	WT%	30.5	31.9	29.4	27.8	27.7	27.0
pH	.08 PH	7.46	7.48	7.56	7.69	7.54	7.57

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

MBCDEWCN= Metro Biosolids Center Dewatered Centrifuged Sludge.

POINT LOMA WASTEWATER TREATMENT PLANT
METRO BIOSOLIDS CENTER
ANNUAL DEWATERED SLUDGE COMPOSITES
Trace Metals

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

Source:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:		31-JUL-2009	31-AUG-2009	30-SEP-2009	31-OCT-2009	30-NOV-2009	31-DEC-2009
Sample ID:	MDL Units	P482163	P485453	P491055	P494996	P498304	P501908
=====	=====	=====	=====	=====	=====	=====	=====
Aluminum	4 MG/KG	5750	6390	6690	6120	6660	7040
Antimony	.5 MG/KG	3.3	3.0	1.0	1.8	1.7	1.7
Arsenic	.68 MG/KG	2.72	1.99	3.71	3.84	4.19	4.07
Barium	.05 MG/KG	438	281	265	203	413	260
Beryllium	.02 MG/KG	0.17	0.24	0.42	0.37	0.19	0.33
Cadmium	.1 MG/KG	1.3	1.2	1.5	1.3	1.5	1.5
Chromium	.3 MG/KG	52	52	70	64	62	75
Cobalt	.2 MG/KG	3.6	3.4	4.8	5.4	4.4	4.1
Cyanides, Total	.1 MG/KG	NA	3.00	NA	8.81	NA	NA
Copper	.4 MG/KG	667	716	744	715	728	733
Iron	20 MG/KG	85600	81300	85200	86200	89800	87400
Lead	2 MG/KG	16	18	20	19	17	19
Manganese	.2 MG/KG	262	258	266	262	275	351
Mercury	.4 MG/KG	1.06	1.47	1.26	1.24	1.52	1.70
Molybdenum	.1 MG/KG	22	23	26	24	23	25
Nickel	.3 MG/KG	51	45	75	80	64	89
Selenium	.47 MG/KG	5.89	6.11	5.77	6.31	5.95	4.90
Silver	.07 MG/KG	8	8	5	4	7	6
Thallium	1 MG/KG	ND	ND	ND	ND	ND	ND
Vanadium	.2 MG/KG	19	18	21	21	20	22
Zinc	8 MG/KG	897	893	951	896	923	939
Sulfides-Reactive	11 MG/KG	ND	ND	ND	ND	ND	ND
Sulfides-Total	2170 MG/KG	12400	14600	19700	11500	11700	16000
Total Nitrogen	1.1 WT%	5.46	3.73	5.71	5.58	5.36	5.32
Total Kjeldahl Nitrogen	.04 WT%	NA	4.54	NA	4.62	NA	NA
Total Volatile Solids	WT%	58.7	59.1	58.4	57.4	56.9	57.1
Total Solids	WT%	26.8	27.2	27.1	27.8	26.8	27.4
pH	.08 PH	7.52	7.75	7.48	7.32	7.48	7.37

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

MBCDEWCN= Metro Biosolids Center Dewatered Centrifuged Sludge.

POINT LOMA WASTEWATER TREATMENT PLANT
 Quarterly Sludge Project
 Total Nitrogen Analysis

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

	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:	31-JAN-2009	28-FEB-2009	31-MAR-2009	30-APR-2009	31-MAY-2009	30-JUN-2009	31-JUL-2009
Sample:	MDL Units P460096	P463456	P467340	P470801	P474221	P477781	P482163
Total Nitrogen 1.1 WT%	4.3	4.1	4.6	4.7	4.7	5.2	5.5

	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:	31-AUG-2009	30-SEP-2009	31-OCT-2009	30-NOV-2009	31-DEC-2009
Sample:	MDL Units P485453	P491055	P494996	P498304	P501908
Total Nitrogen 1.1 WT%	3.7	5.7	5.6	5.4	5.3

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

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY SLUDGE PROJECT - ANNUAL SUMMARY

Radioactivity

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

Source	Sample Date	Sample ID	Gross Alpha Radiation	Gross Beta Radiation
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
PLE	ANNUAL	AVERAGE	2.5 ± 3.1	32.8 ± 7.1

Source	Sample Date	Sample ID	Gross Alpha Radiation	Gross Beta Radiation
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
PLR	ANNUAL	AVERAGE	2.3 ± 3.5	31.7 ± 7.5

Source	Sample Date	Sample ID	Gross Alpha Radiation	Gross Beta Radiation
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
MBC_COMBCN	ANNUAL	AVERAGE	3.9 ± 3.6	50.3 ± 9.2

Source	Sample Date	Sample ID	Gross Alpha Radiation	Gross Beta Radiation
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
AVERAGE			3142 ± 3557	9525 ± 3192

Units in picocuries/liter (pCi/L)

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
ANNUAL SLUDGE PROJECT

Tributyl Tin (Sludge)

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

			MBCDEWCN 31-MAY-2009 P474221	MBCDEWCN 31-OCT-2009 P494996
Monobutyltin	4000	UG/KG	ND	ND
Tributyltin	2600	UG/KG	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
Sample:	MDL	Units	31-MAY-2009	31-AUG-2009	31-OCT-2009
			P474221	P485453	P494996
=====	=====	=====	=====	=====	=====
2,4-dichlorophenoxyacetic acid	2.66	MG/KG	ND	ND	ND
2,4,5-TP (Silvex)	2.87	MG/KG	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	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
Tetraethylpyrophosphate	UG/L	NA	NA	NA	NA	NA
Dichlorvos	.05 UG/L	ND	ND	ND	ND	ND
Dibrom	.2 UG/L	ND	ND	ND	ND	ND
Ethoprop	.04 UG/L	ND	ND	ND	ND	ND
Phorate	.04 UG/L	ND	ND	ND	ND	ND
Sulfotepp	.04 UG/L	ND	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND	ND
Monocrotophos	UG/L	NA	NA	NA	NA	NA
Dimethoate	.04 UG/L	ND	ND	ND	ND	ND
Ronnel	.03 UG/L	ND	ND	ND	ND	ND
Trichloronate	.04 UG/L	ND	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND	ND
Dichlofenthion	.03 UG/L	ND	ND	ND	ND	ND
Tokuthion	.06 UG/L	ND	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND	ND
Bolstar	.07 UG/L	ND	ND	ND	ND	ND
Fensulfothion	.07 UG/L	ND	ND	ND	ND	ND
EPN	.09 UG/L	ND	ND	ND	ND	ND
Coumaphos	.15 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
Chlorpyrifos	.03 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
Tetraethylpyrophosphate	UG/L	NA	NA	NA	NA	NA
Dichlorvos	.05 UG/L	ND	ND	ND	ND	ND
Dibrom	.2 UG/L	ND	ND	ND	ND	ND
Ethoprop	.04 UG/L	ND	ND	ND	ND	ND
Phorate	.04 UG/L	ND	ND	ND	ND	ND
Sulfotepp	.04 UG/L	ND	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND	ND
Monocrotophos	UG/L	NA	NA	NA	NA	NA
Dimethoate	.04 UG/L	ND	ND	ND	ND	ND
Ronnel	.03 UG/L	ND	ND	ND	ND	ND
Trichloronate	.04 UG/L	ND	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND	ND
Dichlofenthion	.03 UG/L	ND	ND	ND	ND	ND
Tokuthion	.06 UG/L	ND	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND	ND
Bolstar	.07 UG/L	ND	ND	ND	ND	ND
Fensulfothion	.07 UG/L	ND	ND	ND	ND	ND
EPN	.09 UG/L	ND	ND	ND	ND	ND
Coumaphos	.15 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
Chlorpyrifos	.03 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
Tetraethylpyrophosphate	UG/L	NA	NA	NA	NA
Dichlorvos	.05 UG/L	ND	ND	ND	ND
Dibrom	.2 UG/L	ND	ND	ND	ND
Ethoprop	.04 UG/L	ND	ND	ND	ND
Phorate	.04 UG/L	ND	ND	ND	ND
Sulfotepp	.04 UG/L	ND	ND	ND	ND
Disulfoton	.02 UG/L	ND	ND	ND	ND
Monocrotophos	UG/L	NA	NA	NA	NA
Dimethoate	.04 UG/L	ND	ND	ND	ND
Ronnel	.03 UG/L	ND	ND	ND	ND
Trichloronate	.04 UG/L	ND	ND	ND	ND
Merphos	.09 UG/L	ND	ND	ND	ND
Dichlofenthion	.03 UG/L	ND	ND	ND	ND
Tokuthion	.06 UG/L	ND	ND	ND	ND
Stirophos	.03 UG/L	ND	ND	ND	ND
Bolstar	.07 UG/L	ND	ND	ND	ND
Fensulfothion	.07 UG/L	ND	ND	ND	ND
EPN	.09 UG/L	ND	ND	ND	ND
Coumaphos	.15 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
Chlorpyrifos	.03 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
Tetraethylpyrophosphate		UG/KG	NA	NA
Dichlorvos	17	UG/KG	ND	ND
Dibrom		UG/KG	ND	ND
Ethoprop	27	UG/KG	ND	ND
Phorate	17	UG/KG	ND	ND
Sulfotepp	17	UG/KG	ND	ND
Disulfoton	20	UG/KG	ND	ND
Monocrotophos		UG/KG	NA	NA
Dimethoate	27	UG/KG	ND	ND
Ronnel	20	UG/KG	ND	ND
Trichloronate	20	UG/KG	ND	ND
Merphos	17	UG/KG	ND	ND
Dichlofenthion	20	UG/KG	ND	ND
Tokuthion	17	UG/KG	ND	ND
Stirophos	20	UG/KG	ND	ND
Bolstar	50	UG/KG	ND	ND
Fensulfothion	100	UG/KG	ND	ND
EPN	33	UG/KG	110.0	ND
Coumaphos	33	UG/KG	ND	ND
Mevinphos, e isomer	17	UG/KG	ND	ND
Mevinphos, z isomer	100	UG/KG	ND	ND
Chlorpyrifos		UG/KG	124.0	131.0
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	234.0	131.0

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SLUDGE
Base/Neutrals

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

Analyte	MDL Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
		28-FEB-2009 P463456	31-MAY-2009 P474221	31-AUG-2009 P485453	31-OCT-2009 P494996
=====					
bis(2-chloroethyl) ether	330 UG/KG	ND	ND	ND	ND
1,3-dichlorobenzene	330 UG/KG	ND	ND	ND	ND
1,4-dichlorobenzene	330 UG/KG	ND	ND	ND	ND
1,2-dichlorobenzene	330 UG/KG	<330	ND	ND	ND
Bis-(2-chloroisopropyl) ether	330 UG/KG	ND	ND	ND	ND
N-nitrosodi-n-propylamine	330 UG/KG	ND	ND	ND	ND
Nitrobenzene	330 UG/KG	ND	ND	ND	ND
Hexachloroethane	330 UG/KG	ND	ND	ND	ND
Isophorone	330 UG/KG	ND	ND	ND	ND
bis(2-chloroethoxy)methane	330 UG/KG	ND	ND	ND	ND
1,2,4-trichlorobenzene	330 UG/KG	ND	ND	ND	ND
Naphthalene	330 UG/KG	ND	ND	<330	ND
Hexachlorobutadiene	330 UG/KG	ND	ND	ND	ND
Hexachlorocyclopentadiene	330 UG/KG	ND	ND	ND	ND
2-chloronaphthalene	UG/KG	ND	ND	603	ND
Acenaphthylene	330 UG/KG	ND	ND	ND	ND
Dimethyl phthalate	330 UG/KG	ND	ND	ND	ND
2,6-dinitrotoluene	330 UG/KG	ND	ND	ND	ND
Acenaphthene	330 UG/KG	ND	ND	ND	ND
2,4-dinitrotoluene	330 UG/KG	ND	ND	ND	ND
Fluorene	330 UG/KG	ND	ND	ND	ND
4-chlorophenyl phenyl ether	330 UG/KG	ND	ND	ND	ND
Diethyl phthalate	330 UG/KG	ND	ND	ND	ND
N-nitrosodiphenylamine	330 UG/KG	551	ND	389	ND
4-bromophenyl phenyl ether	330 UG/KG	ND	ND	ND	ND
Hexachlorobenzene	330 UG/KG	ND	ND	ND	ND
Phenanthrene	330 UG/KG	729	ND	727	847
Anthracene	330 UG/KG	ND	ND	ND	ND
Di-n-butyl phthalate	330 UG/KG	547	ND	<330	ND
N-nitrosodimethylamine	330 UG/KG	ND	ND	ND	501
Fluoranthene	330 UG/KG	ND	ND	<330	ND
Pyrene	330 UG/KG	ND	ND	380	<330
Benzidine	330 UG/KG	NR	ND	ND	ND
Butyl benzyl phthalate	330 UG/KG	1710	2540	2990	2140
Chrysene	330 UG/KG	614	685	802	ND
Benzo[A]anthracene	330 UG/KG	ND	ND	ND	<330
Bis-(2-ethylhexyl) phthalate	330 UG/KG	72800	99500	150000	116000
Di-n-octyl phthalate	330 UG/KG	ND	ND	5600	2760
3,3-dichlorobenzidine	330 UG/KG	NR	ND	ND	ND
Benzo[K]fluoranthene	330 UG/KG	ND	ND	ND	ND
3,4-benzo(B)fluoranthene	330 UG/KG	ND	ND	ND	ND
Benzo[A]pyrene	330 UG/KG	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	330 UG/KG	765	ND	ND	ND
Dibenzo(A,H)anthracene	330 UG/KG	ND	ND	ND	ND
Benzo[G,H,I]perylene	330 UG/KG	ND	ND	ND	ND
1,2-diphenylhydrazine	UG/KG	ND	ND	ND	ND
=====					
PolyNuc. Aromatic Hydrocarbons	330 UG/KG	2108	685	1909	847
Dichlorobenzenes	330 UG/KG	0	0	0	0
=====					
Base/Neutral Compounds	330 UG/KG	77716	102725	161491	122248
=====					
1-methylnaphthalene	UG/KG	862	ND	428	475
2-methylnaphthalene	UG/KG	1320	489	512	724
2,6-dimethylnaphthalene	UG/KG	1800	1270	1080	829
2,3,5-trimethylnaphthalene	UG/KG	ND	ND	ND	ND
1-methylphenanthrene	UG/KG	ND	ND	ND	ND
Benzo[e]pyrene	UG/KG	ND	ND	ND	ND
Perylene	330 UG/KG	ND	ND	ND	ND
Biphenyl	UG/KG	142	ND	ND	ND
Pyridine	UG/KG	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL SLUDGE
Phenolics

From 01-OCT-2009 To 31-DEC-2009

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	Average
			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	ND
4-chloro-3-methylphenol	330	UG/KG	ND	ND	ND	ND	ND
2,4-dichlorophenol	330	UG/KG	ND	ND	ND	ND	ND
2,4-dimethylphenol	330	UG/KG	ND	ND	ND	630	158
2,4-dinitrophenol	330	UG/KG	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	800	UG/KG	ND	ND	ND	ND	ND
2-nitrophenol	330	UG/KG	ND	ND	ND	ND	ND
4-nitrophenol	800	UG/KG	ND	ND	ND	ND	ND
Pentachlorophenol	800	UG/KG	ND	ND	ND	ND	ND
Phenol	330	UG/KG	4560	3980	4110	5210	4465
2,4,6-trichlorophenol	330	UG/KG	ND	ND	ND	ND	ND
Total Chlorinated Phenols	800	UG/KG	0	0	0	0	0
=====							
Total Non-Chlorinated Phenols	800	UG/KG	5192	5470	5140	10320	6531
=====							
Phenols	800	UG/KG	5192	5470	5140	10320	6531
=====							
2-methylphenol	330	UG/KG	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)	330	UG/KG	ND	ND	ND	ND	ND
4-methylphenol(3-MP is unresolved)	330	UG/KG	632	1490	1030	4480	1908
2,4,5-trichlorophenol	800	UG/KG	ND	ND	ND	ND	ND
=====							
Phenols average	800	UG/KG	415	362	374	531	421

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

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

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

Analyzed by: TestAmerica

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

H. Results of "Title 22" Sludge Hazardous Waste Tests

Title 22 CCR Summary Tables

Concentrations of Title 22 analytes (metals and organics) both on a wet weight and dry weight concentration basis for monthly composite of daily samples of sludge being hauled from the Metro Biosolids Center.

The tables list the TTLC (Total Threshold Limit Concentration) or STLC (Soluble Threshold Limit Concentration) limits in the left column for each analyte.

Definitions:

MBCDEWCN = Metro Biosolids Center dewatered sludge.

CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TEST (TITLE 22)

METRO BIOSOLIDS CENTER (MBC)

METALS													
WET WEIGHT Concentration (calculated)													
ANALYTE	TILC	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
	Wet wt mg/Kg	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
		P460096	P463456	P467340	P470801	P474221	P477781	P482163	P485453	P491055	P494996	P498304	P501908
ANTIMONY	500	1.04	1.41	1.04	0.95	0.98	0.95	0.87	0.80	0.26	1.03	0.44	0.46
ARSENIC	500	1.1	1.6	1.6	1.2	0.4	0.8	0.7	0.5	1.0	2.2	1.1	1.1
BARIIUM	10000	133	128	130	113	88	67	117	76	72	117	111	70
BERYLLIUM	75	0.049	0.121	0.123	0.150	0.105	0.1	0.0	0.1	0.1	0.2	0.1	0.1
CADMIUM	100	0.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.7	0.4	0.4
CHROMIUM(VI)	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM(total)	2500	19	27	20	20	19	19	14	14	19	37	17	20
COBALT	8000	1.0	1.3	1.1	1.1	1.1	1.0	1.0	0.9	1.3	3.1	1.2	1.1
COPPER	2500	223	215	212	212	205	194	178	195	201	410	195	196
LEAD	1000	6	6	6	5	5	4	4	5	5	11	5	5
MERCURY	20	0.43	0.41	0.47	0.42	0.31	0.37	0.28	0.40	0.34	0.71	0.41	0.46
MOLYBDENUM	3500	6.2	6.3	5.3	5.4	5.8	5.7	6.0	6.3	7.0	13.9	6.2	6.6
NICKEL	2000	18	26	17	16	17	19	13	12	20	46	17	24
SELENIUM	100	1.8	1.5	1.7	1.6	1.9	1.8	1.6	1.7	1.6	3.6	1.6	1.3
SILVER	500	3	3	2	2	2	3	2	2	1	2	2	2
THALLIUM	700	< 0.30	< 0.32	< 0.29	< 0.28	< 0.28	< 0.27	< 0.27	< 0.27	< 0.27	< 0.57	< 0.27	< 0.27
VANADIUM	2400	6	6	6	5	5	5	5	5	6	12	5	6
ZINC	5000	305	264	264	219	267	244	240	243	258	514	247	252
FLUORIDE	18000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SULFIDES-REACTIVE	NA	< 3	< 4	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 6	< 3	< 3
SULFIDES-TOTAL	NA	1984	1895	1683	2643	3684	3908	3317	3971	5325	6618	5122	4275
TOTAL SOLIDS (%)		30.5	31.9	29.4	27.8	27.7	27.0	26.8	27.2	27.1	57.4	26.8	26.8

DRY WEIGHT Concentration													
ANALYTE	TILC	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
	Wet wt mg/Kg	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
		P460096	P463456	P467340	P470801	P474221	P477781	P482163	P485453	P491055	P494996	P498304	P501908
ANTIMONY	500	3.4	4.4	3.5	3.4	3.5	3.5	3.3	3.0	1.0	1.8	1.7	1.7
ARSENIC	500	3.6	5.1	5.6	4.5	1.6	3.1	2.7	2.0	3.7	3.8	4.2	4.1
BARIIUM	10000	438	403	443	406	318	247	438	281	265	203	413	260
BERYLLIUM	75	0.2	0.4	0.42	0.5	0.4	0.33	0.17	0.24	0.42	0.37	0.2	0.33
CADMIUM	100	1.5	1.4	1.4	1.5	1.4	1.3	1.3	1.2	1.5	1.3	1.5	1.5
CHROMIUM(VI)	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM(total)	2500	61.3	86.2	69.2	70.9	69.5	70.8	51.8	52.2	69.6	63.7	61.8	75.4
COBALT	8000	3.1	4.2	3.6	3.9	3.9	3.8	3.6	3.4	4.8	5.4	4.4	4.1
COPPER	2500	732.5	673.5	723.5	763	741.5	720	666.5	715.5	743.5	715	728	733
LEAD	1000	20.6	18	18.9	17.4	17.7	16.1	16.3	17.5	20.1	18.7	17	18.6
MERCURY	20	1.4	1.3	1.6	1.5	1.1	1.4	1.1	1.5	1.3	1.2	1.5	1.7
MOLYBDENUM	3500	20.45	19.6	18.05	19.55	20.8	21	22.3	23.2	26.0	24.2	23.3	24.8
NICKEL	2000	57.65	81.2	56.55	57.7	62	71.2	50.45	45.4	75.2	80.2	64.1	89.4
SELENIUM	100	6.0	4.7	5.8	5.6	6.9	6.8	5.9	6.1	5.8	6.3	6.0	4.9
SILVER	500	8.8	7.87	8.07	8.64	8.96	9.64	7.85	7.74	5.44	3.85	6.74	5.85
THALLIUM	700	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
VANADIUM	2400	21.3	19.8	22.1	19.5	19.1	18.1	18.45	17.7	21.0	20.8	20.4	22.4
ZINC	5000	1003	829	898	790	964	907	897	893	951	896	923	939
FLUORIDE	18000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SULFIDES-REACTIVE	NA	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11	< 11
SULFIDES-TOTAL	NA	6515	5940	5735	9525	13300	14500	12400	14600	19650	11530	11650	15950

TTLC = Total Threshold Limit Concentration
 NA = Not Analyzed, NS = Not Sampled

STLC = Soluble Threshold Limit Concentration

* = The total concentration is less than 10 times the the STLC, therefore by definition this substance is below hazardous concentrations.

ORGANICS													
WET WEIGHT Concentration (calculated)													
ANALYTE	TILC	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
	Wet wt mg/Kg	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
		P460096	P463456	P467340	P470801	P474221	P477781	P482163	P485453	P491055	P494996	P498304	P501908
ALDRIN	1.4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLORDANE	2.5	nd	nd	0	0.016	0.015	0.027	nd	nd	0.005	0.025	0.066	nd
DDT,DDE,DDD	1.0	0	0.0191	0.0029	0.0222	0.0039	nd	nd	nd	nd	0.0344	nd	nd
2,4-DCPAA	100	NA	NA	NA	NA	NA	NA	NA	NA	nd	NA	NA	NA
DIELDRIN	8.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ENDRIN	0.20	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
HEPTACHLOR	4.7	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
KEPONE	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LINDANE	4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
METHOXYCHLOR	100	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MIREX	21	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
PENTACHLOROPHENOL	17	NA	NA	NA	NA	NA	NA	NA	0.262	NA	NA	NA	NA
PCBs (TOTAL)	50	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOXAPHENE	5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROETHENE	2040	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd
2,4,5-TCPPA	10	NA	NA	NA	NA	NA	NA	NA	NA	nd	NA	NA	NA
TOTAL SOLIDS (%)		30.5	31.9	29.4	27.8	27.7	27.0	26.8	27.2	27.1	57.4	26.8	26.8
pH	>2-<12.5	7.46	7.48	7.56	7.69	7.54	7.57	7.52	7.75	7.48	7.32	7.48	7.48

DRY WEIGHT Concentration

ANALYTE	TILC	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
	Wet wt mg/Kg	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
		P460096	P463456	P467340	P470801	P474221	P477781	P482163	P485453	P491055	P494996	P498304	P501908
ALDRIN	1.4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CHLORDANE	2.5	nd	nd	0.024	0.058	0.054	0.101	nd	nd	0.01700	0.043	0.246	nd
DDT,DDE,DDD	1.0	0.050	0.060	0.010	0.080	0.014	nd	nd	nd	nd	0.060	nd	nd
2,4-DCPAA	100	NA	NA	NA	NA	NA	NA	NA	NA	nd	NA	NA	NA
DIELDRIN	8.0	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
ENDRIN	0.20	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
HEPTACHLOR	4.7	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
KEPONE	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LINDANE	4	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
METHOXYCHLOR	100	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
MIREX	21	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
PENTACHLOROPHENOL	17	NA	NA	NA	NA	NA	NA	NA	0.965	NA	NA	NA	NA
PCBs (TOTAL)	50	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TOXAPHENE	5	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROETHENE	2040	nd	nd	nd	nd	nd	nd	nd	nd	nd	NA	nd	nd
2,4,5-TCPPA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

WASTE EXTRACTION TEST - METALS

ANALYTE	STLC	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
	Wet wt mg/L	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
		P460096	P463456	P467340	P470801	P474221	P477781	P482163	P485453	P491055	P494996	P498304	P501908
ANTIMONY	15	*	*	*	*	*	*	*	*	*	*	*	*
ARSENIC	5.0	*	*	*	*	*	*	*	*	*	*	*	*
BARIUM	100	*	*	*	*	*	*	*	*	*	*	*	*
BERYLLIUM	0.75	*	*	*	*	*	*	*	*	*	*	*	*
CADMIUM	1.0	*	*	*	*	*	*	*	*	*	*	*	*
CHROMIUM(VI)	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM(total)	560	*	*	*	*	*	*	*	*	*	*	*	*
COBALT	80	*	*	*	*	*	*	*	*	*	*	*	*
COPPER	25	*	*	*	*	*	*	*	*	*	*	*	*
LEAD	5.0	*	*	*	*	*	*	*	*	*	*	*	*
MERCURY	0.2	*	*	*	*	*	*	*	*	*	*	*	*
MOLYBDENUM	350	*	*	*	*	*	*	*	*	*	*	*	*
NICKEL	20	*	*	*	*	*	*	*	*	*	*	*	*
SELENIUM	1.0	*	*	*	*	*	*	*	*	*	*	*	*
SILVER	5.0	*	*	*	*	*	*	*	*	*	*	*	*
THALLIUM	7.0	*	*	*	*	*	*	*	*	*	*	*	*
VANADIUM	24	*	*	*	*	*	*	*	*	*	*	*	*
ZINC	250	*	*	*	*	*	*	*	*	*	*	*	*

* = Since the total concentrations are less than 10 times the the STLC, this substance is below STLC limits by definition.

WASTE EXTRACTION TEST - ORGANICS

ANALYTE	STLC	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
	Wet wt mg/L	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
		P460096	P463456	P467340	P470801	P474221	P477781	P482163	P485453	P491055	P494996	P498304	P501908
ALDRIN	0.14	*	*	*	*	*	*	*	*	*	*	*	*
CHLORDANE	0.25	*	*	*	*	*	*	*	*	*	*	*	*
DDT,DDE,DDD	0.1	*	*	*	*	*	*	*	*	*	*	*	*
2,4-DCPAA	10	NA	NA	NA	NA	NA	NA	NA	NA	*	NA	NA	NA
DIELDRIN	0.8	*	*	*	*	*	*	*	*	*	*	*	*
ENDRIN	0.02	*	*	*	*	*	*	*	*	*	*	*	*
HEPTACHLOR	0.47	*	*	*	*	*	*	*	*	*	*	*	*
KEPONE	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LINDANE	0.4	*	*	*	*	*	*	*	*	*	*	*	*
METHOXYCHLOR	10	*	*	*	*	*	*	*	*	*	*	*	*
MIREX	2.1	*	*	*	*	*	*	*	*	*	*	*	*
PENTACHLOROPHENOL	1.7	NA	NA	NA	NA	NA	NA	NA	*	NA	NA	NA	NA
PCBs (TOTAL)	5	*	*	*	*	*	*	*	*	*	*	*	*
TOXAPHENE	0.5	*	*	*	*	*	*	*	*	*	*	*	*
TRICHLOROETHENE	204	*	*	*	*	*	*	*	*	*	NA	*	*
2,4,5-TCPPA	1	NA	NA	NA	NA	NA	NA	NA	NA	*	NA	NA	NA

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

NA = Not Analyzed, NS = Not Sampled

* = Since the total concentrations are less than 10 times the the STLC, this substance is below STLC limits by definition.

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