

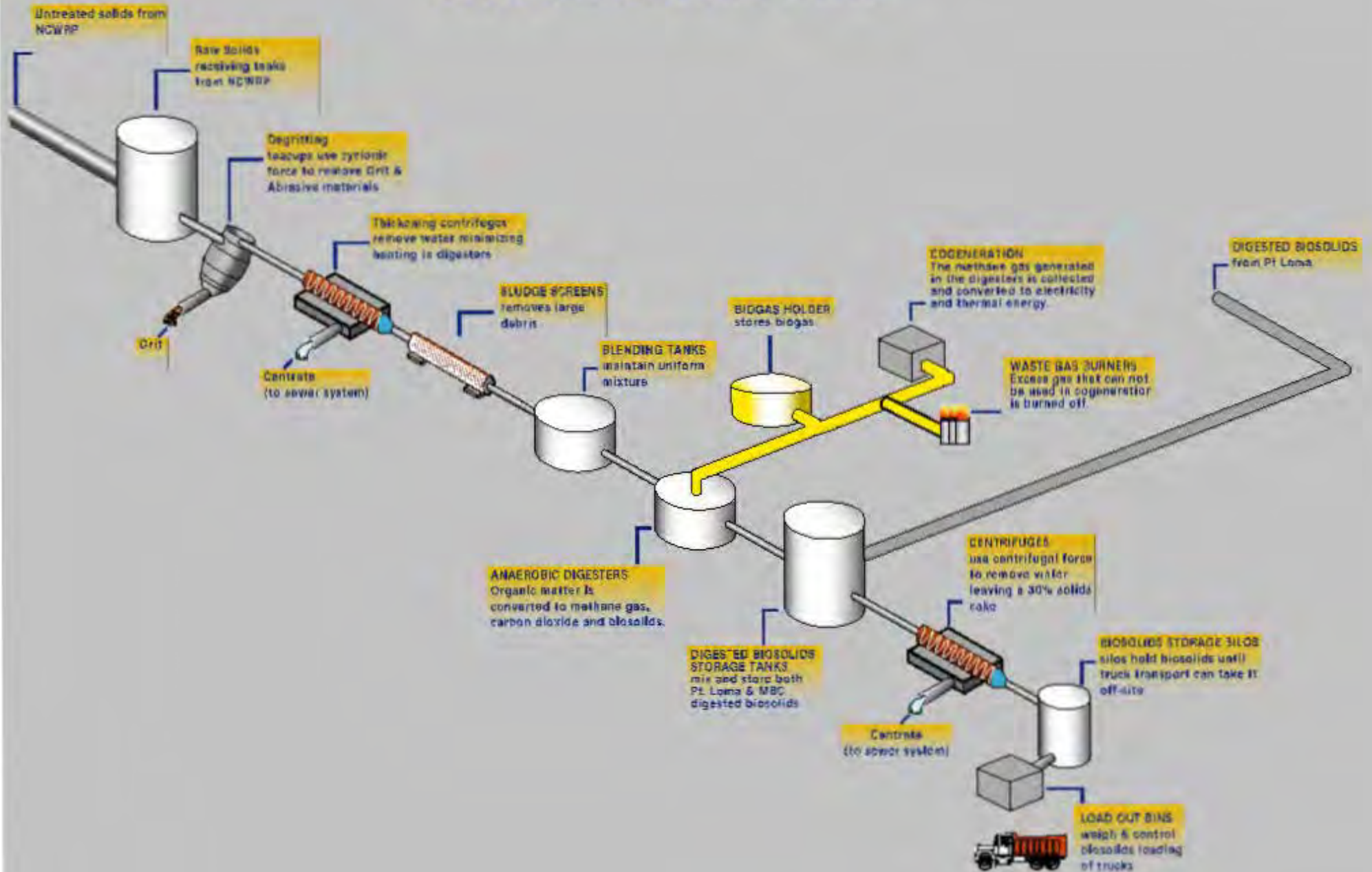
IV. Metro Biosolids Center (MBC) Data

- A. Return Stream Data Summary
- B. Digester and Digested Sludge Data Summary
- C. Gas Production
- D. Chemical usage
- E. Graphs of chemical usage
- F. Facilities Out-of-service Report (2002)
- G. Solids Handling Annual Report
- H. Results of "Title 22" Sludge Hazardous Waste Tests

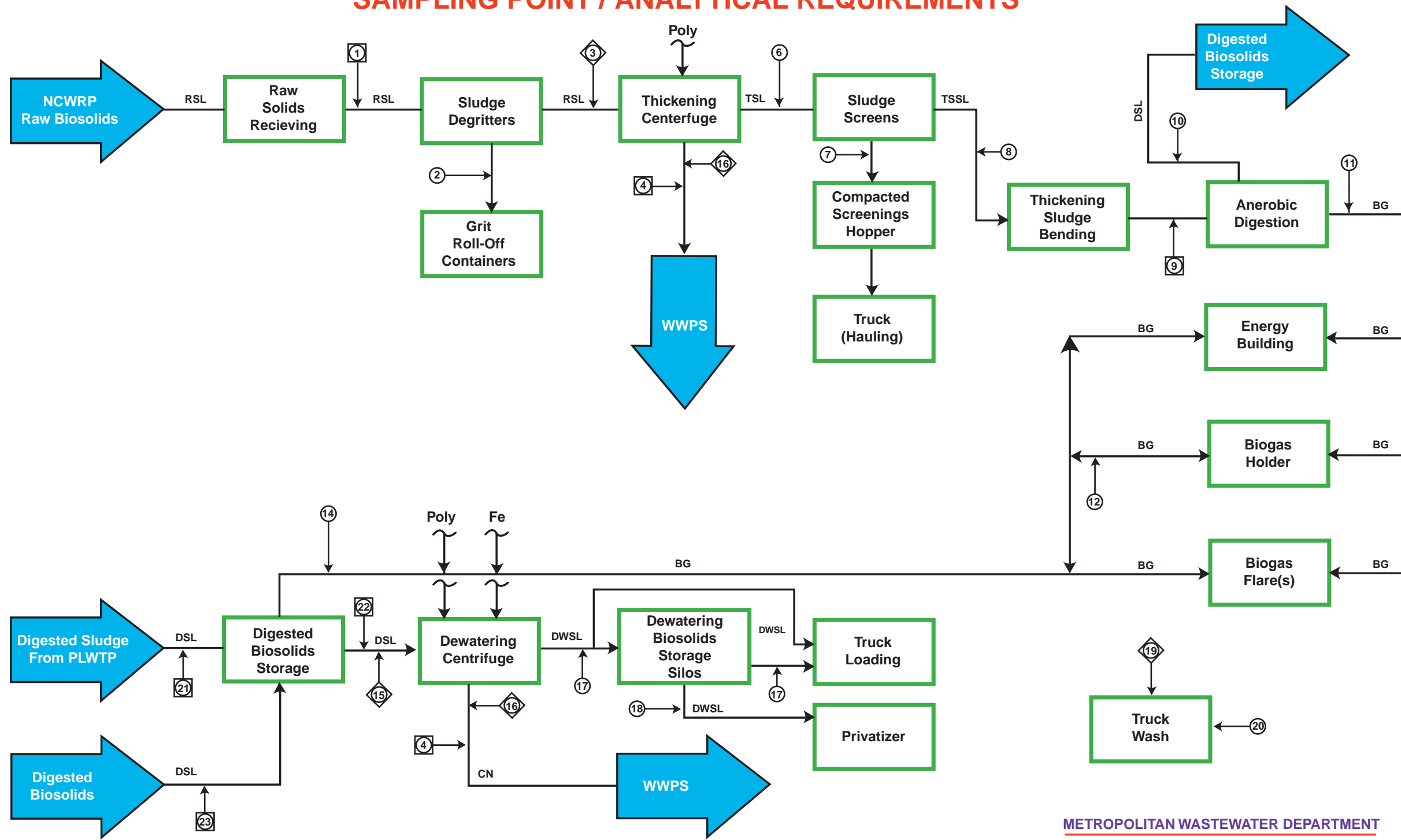
Metro Biosolids Center



Metro Biosolids Center Process



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	Thickened Sludge Feed Loop (76 DE 2140): Total Solids, Volatile Solids, % Moisture	10	Anaerobically Digested Sludge: % Total Solids, % Volatile Solids, Temperature, pH, Alkalinity, Volatile Acids	17	Dewatered Biosolids: Total Solids, Volatile Solids, pH, TKN, PCB, Trace Metals
3	Grit: Volatile Solids, % Moisture	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, BOD ₅	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: 05/17/2000

A. Return Stream Data Summary

This section presents the results of analyses of the Metro Biosolids Center (MBC) return stream (MBC_COMBCN) for 2003. This return stream is continuously sampled by a flow proportioned, autosampler connected to the return stream lines at MBC. Each 24-hour¹ 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 select parameters' monthly averages are graphed. Tables of daily values for select parameters (such as TSS, Flow, etc.) along with graphs are also provided.

¹ approximately midnight to midnight each day.

City of San Diego
Metropolitan Wastewater Department

Metro Biosolids Center

Monthly Averages of Daily Analyses

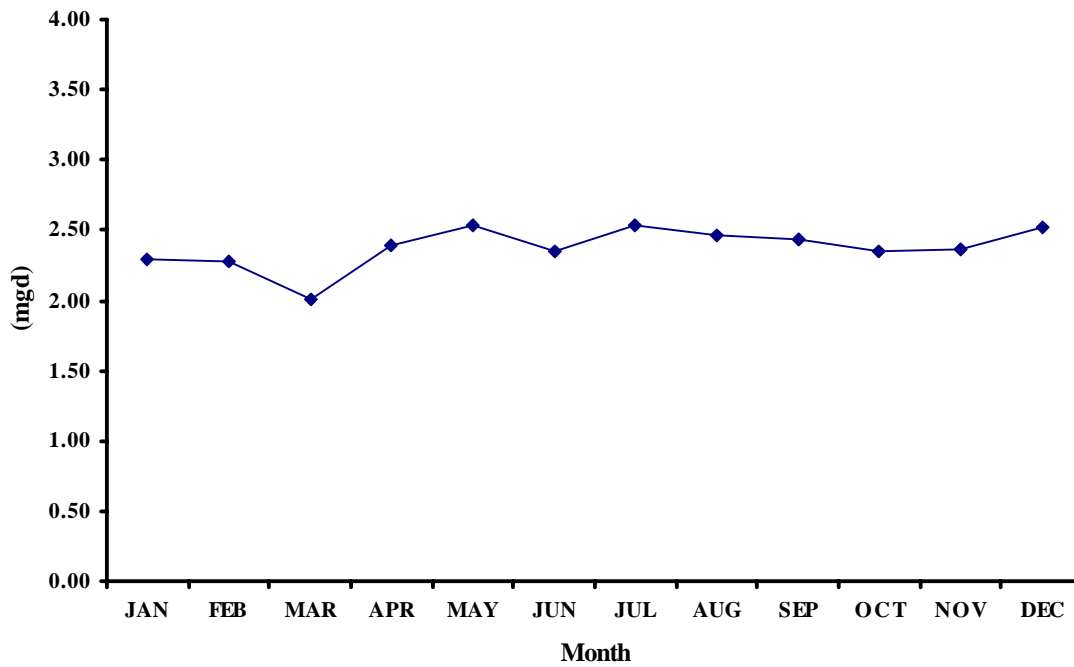
From 01-JAN-2003 To 31-DEC-2003

	FLOW	PH	BOD	TSS	VSS	TS	TVS	TSS Mass Emmissions (lbs/Day)
	MGD	pH Units	mg/L	mg/L	mg/L	Wt%	Wt%	
JANUARY -2003	2.29	7.97	249	709	501	0.25	38	13541
FEBRUARY -2003	2.28	7.98	224	484	361	0.25	37	9203
MARCH -2003	2.01	7.92	307	1010	666	0.30	36	16931
APRIL -2003	2.39	8.00	350	811	589	0.27	40	16165
MAY -2003	2.53	7.98	267	525	395	0.25	39	11078
JUNE -2003	2.35	7.98	286	581	437	0.26	41	11387
JULY -2003	2.54	7.99	302	607	464	0.24	37	12858
AUGUST -2003	2.46	7.95	276	500	373	0.24	37	10258
SEPTEMBER-2003	2.44	7.97	254	621	451	0.26	39	12637
OCTOBER -2003	2.35	7.95	240	543	412	0.25	36	10642
NOVEMBER -2003	2.36	7.91	270	898	598	0.25*	34*	17675
DECEMBER -2003	2.52	7.88	462	939	639	0.27	36	19735
Average	2.38	7.96	291	686	491	0.26	38	13509

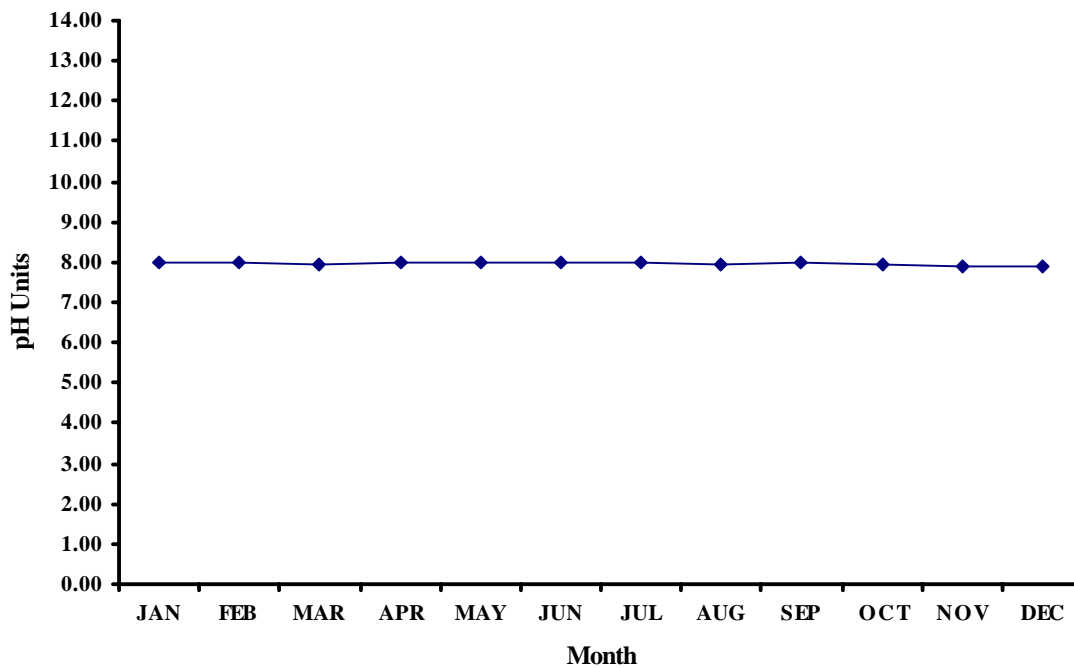
*=did not include anomalous data from 11/21/03

'Average' = Annual average of Monthly Averages.

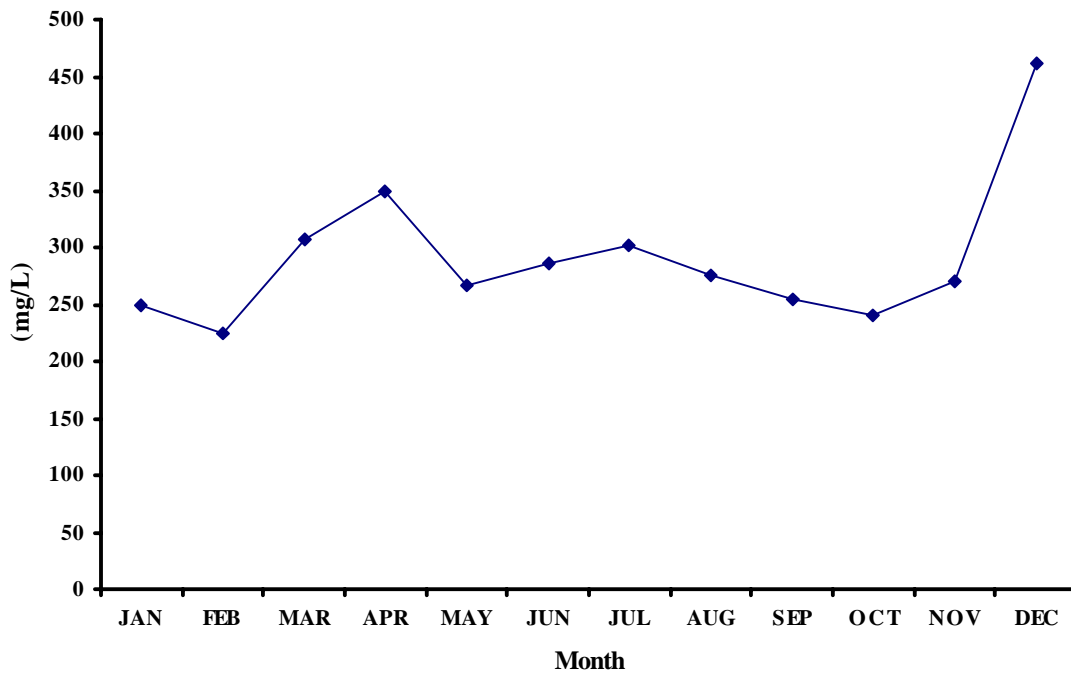
**MBC Combined Centrate
2003 Monthly Averages - Flow (mgd)**



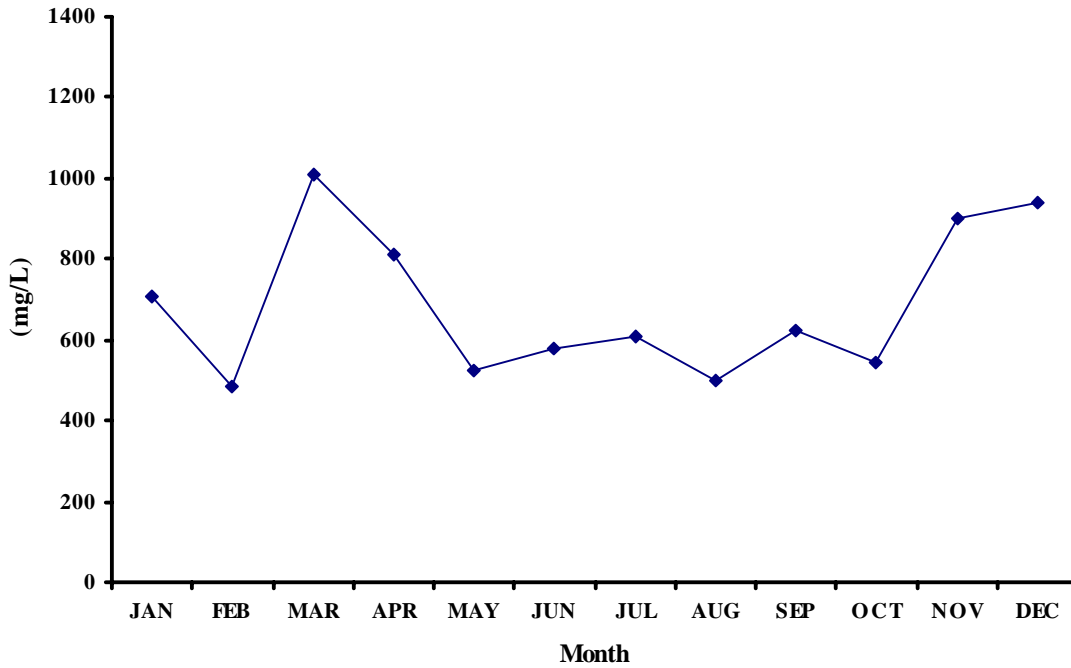
**MBC Combined Centrate
2003 Monthly Averages - pH**



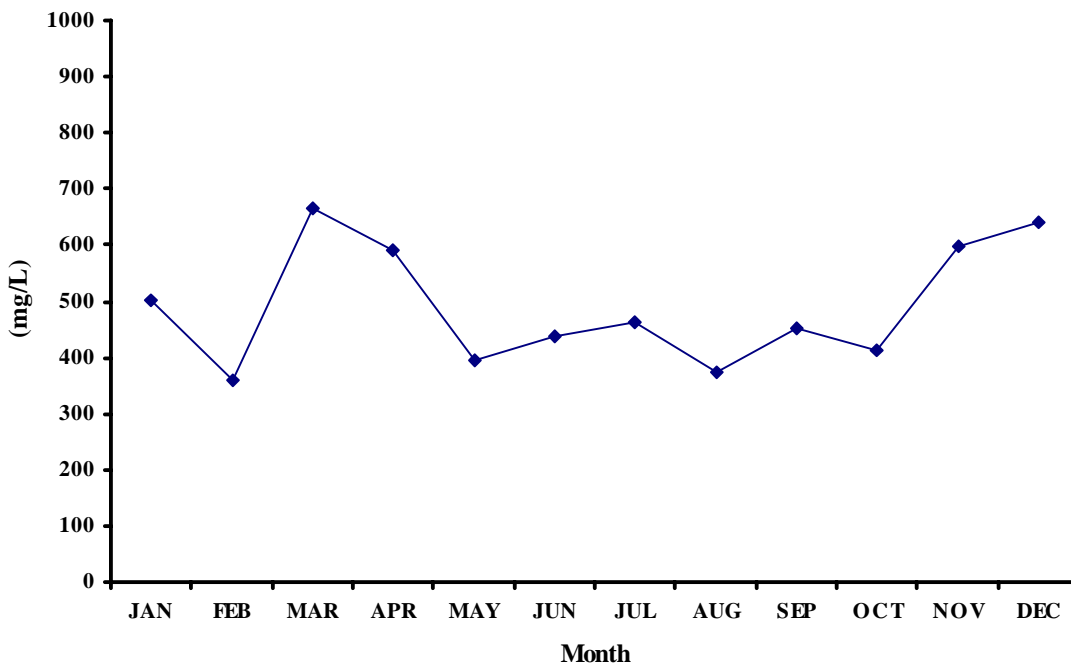
**MBC Combined Centrate
2003 Monthly Averages - BOD (mg/L)**



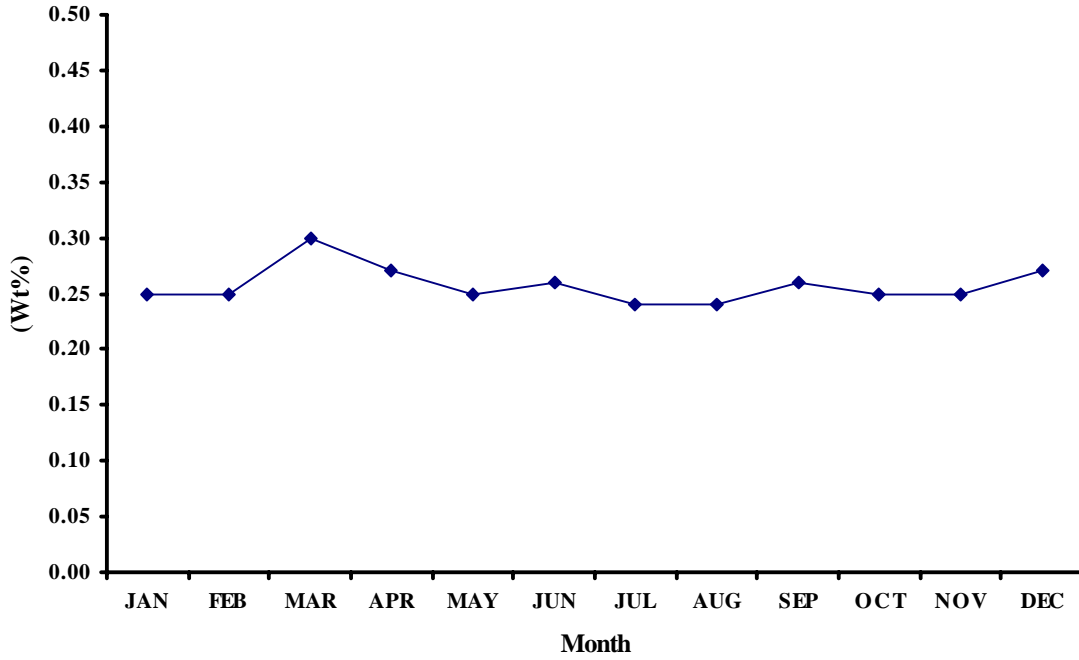
**MBC Combined Centrate
2003 Monthly Averages - TSS (mg/L)**



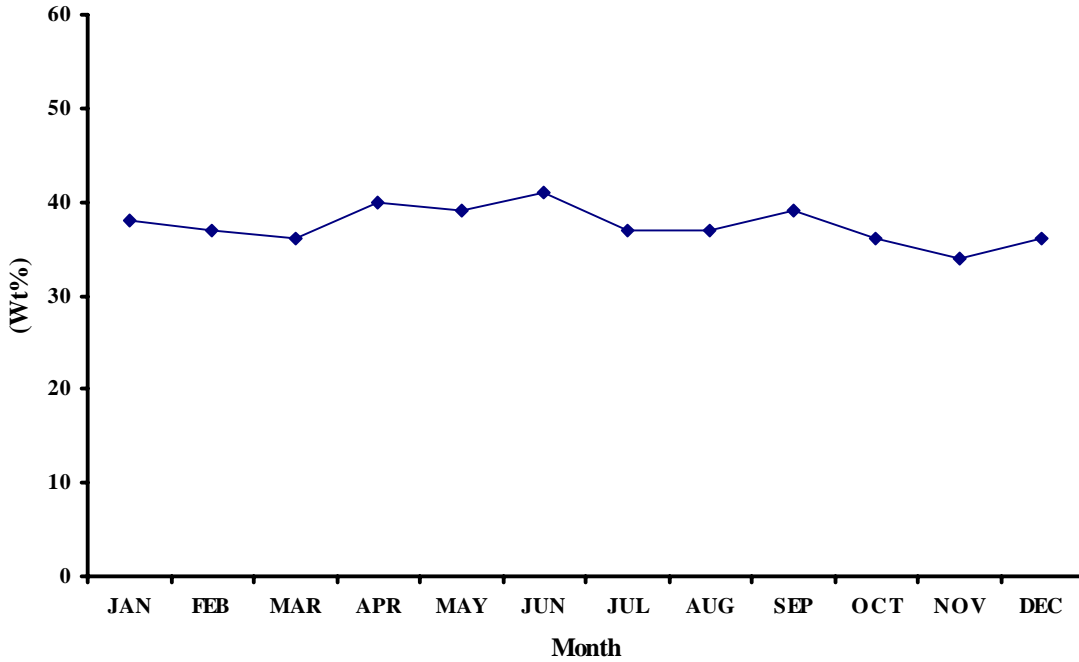
**MBC Combined Centrate
2003 Monthly Averages - VSS (mg/L)**



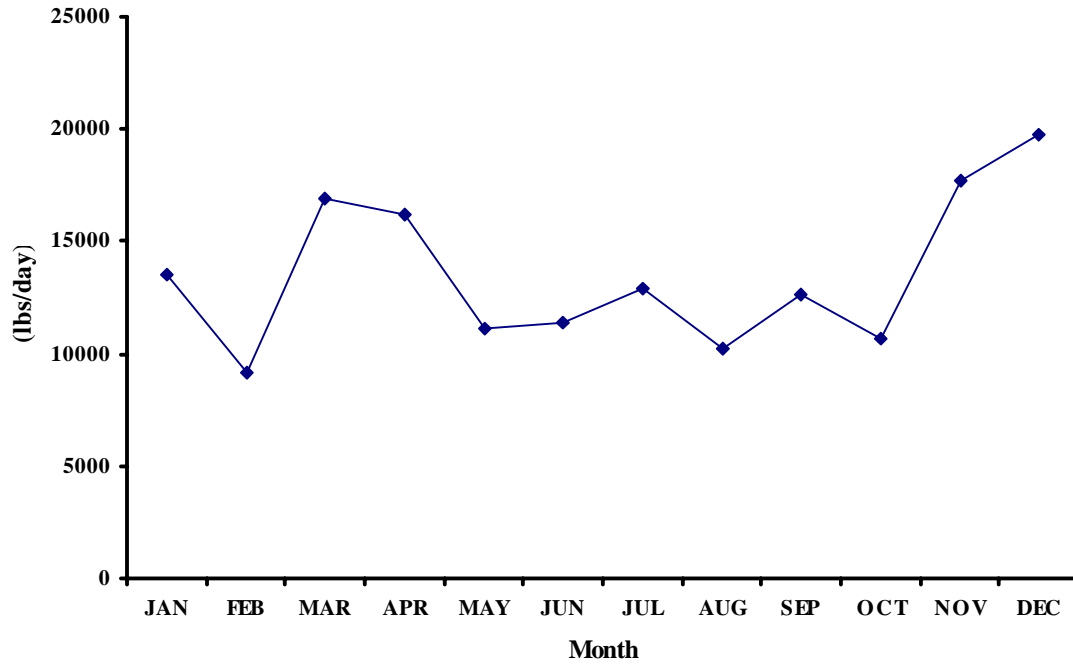
**MBC Combined Centrate
2003 Monthly Averages - Percent TS**



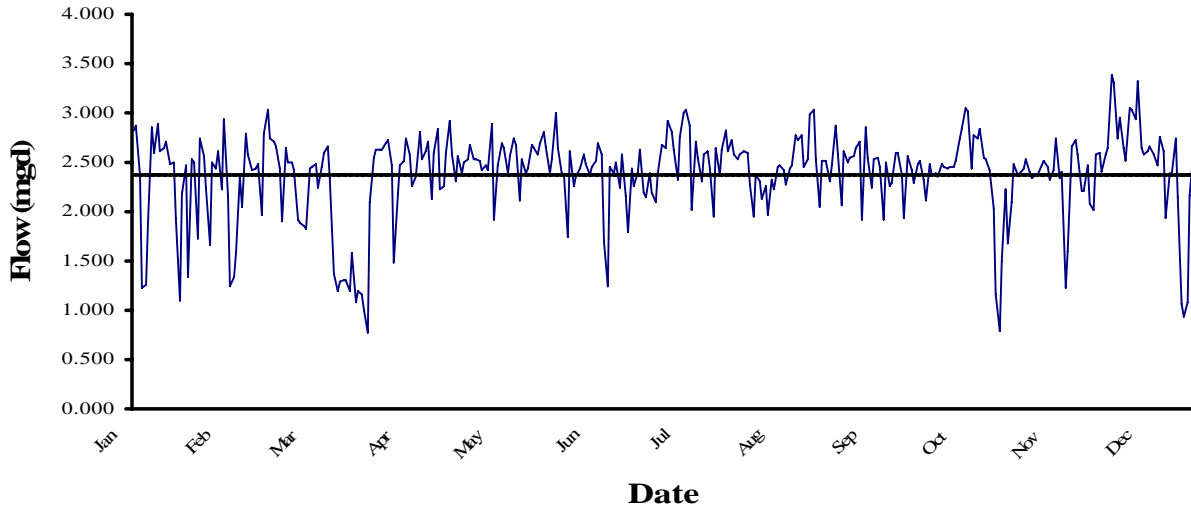
**MBC Combined Centrate
2003 Monthly Averages - Percent TVS**



**MBC Combined Centrate
2003 Monthly Averages - TSS Mass Emission (lbs/day)**



2003 MBC Return Stream Flow (mgd)



Metro Biosolids Center

2003 MBC Return Stream Daily Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.425	2.476	2.743	1.006	2.301	2.381	2.635	2.579	2.302	2.519	2.481	2.573
2	2.504	1.332	2.710	0.770	2.571	2.528	2.194	2.536	2.474	2.315	2.370	2.652
3	2.629	2.530	2.664	2.098	2.389	3.003	2.150	2.584	2.863	2.108	2.387	3.394
4	2.476	2.496	2.437	2.545	2.498	2.650	2.390	2.613	2.573	2.478	2.431	3.303
5	2.357	1.720	1.902	2.633	2.530	2.384	2.186	2.597	2.064	2.368	2.526	2.736
6	2.596	2.748	2.637	2.633	2.672	2.371	2.092	2.269	2.618	2.382	2.399	2.952
7	1.057	2.561	2.501	2.629	2.533	1.748	2.393	1.958	2.494	2.350	2.343	2.644
8	0.857	2.245	2.494	2.701	2.537	2.620	2.682	2.376	2.554	2.481	2.371	2.508
9	2.860	1.659	2.423	2.727	2.514	2.258	2.650	2.314	2.566	2.444	2.372	3.050
10	2.857	2.496	1.916	2.469	2.425	2.358	2.923	2.133	2.648	2.439	2.462	3.030
11	2.807	2.442	1.890	1.489	2.461	2.435	2.802	2.253	2.711	2.446	2.509	2.938
12	2.107	2.620	1.854	2.170	2.416	2.583	2.628	1.971	1.921	2.451	2.458	3.323
13	2.182	2.221	1.815	2.467	2.879	2.479	2.330	2.325	2.851	2.515	2.323	2.652
14	2.321	2.937	2.438	2.512	1.918	2.370	2.761	2.223	2.556	2.735	2.419	2.574
15	2.817	2.166	2.447	2.743	2.472	2.455	3.000	2.445	2.244	2.843	2.749	2.606
16	2.864	1.249	2.490	2.577	2.692	2.519	3.033	2.472	2.525	3.047	2.335	2.659
17	2.374	1.334	2.243	2.260	2.649	2.688	2.875	2.425	2.544	3.016	2.403	2.587
18	1.220	1.589	2.458	2.359	2.392	2.579	2.012	2.271	2.458	2.442	1.220	2.472
19	1.266	2.348	2.601	2.801	2.570	1.701	2.706	2.435	1.927	2.781	1.604	2.763
20	1.892	2.042	2.657	2.528	2.734	1.237	2.544	2.465	2.506	2.736	2.660	2.615
21	2.853	2.794	2.335	2.615	2.682	2.456	2.302	2.781	2.251	2.841	2.723	1.929
22	2.592	2.581	1.365	2.713	2.112	2.385	2.574	2.725	2.291	2.555	2.574	2.379
23	2.887	2.421	1.191	2.132	2.535	2.505	2.617	2.778	2.590	2.535	2.212	2.370
24	2.619	2.435	1.287	2.602	2.392	2.246	2.434	2.446	2.602	2.418	2.210	2.736
25	2.644	2.486	1.314	2.839	2.443	2.583	1.954	2.524	2.367	2.031	2.471	2.153
26	2.712	1.965	1.311	2.231	2.673	2.154	2.644	2.991	1.941	1.160	2.087	1.070
27	2.480	2.797	1.193	2.266	2.649	1.789	2.374	3.029	2.572	0.794	2.013	0.943
28	2.502	3.028	1.579	2.590	2.581	2.439	2.627	2.540	2.427	1.498	2.582	1.086
29	1.940		1.088	2.918	2.694	2.260	2.820	2.045	2.294	2.228	2.604	2.160
30	1.092		1.197	2.588	2.806	2.403	2.620	2.522	2.480	1.671	2.401	2.640
31	2.175		1.158		2.664		2.730	2.522		2.104		2.501
Avg	2.289	2.276	2.011	2.387	2.528	2.352	2.538	2.456	2.441	2.346	2.357	2.516
Min	0.857	1.249	1.088	0.770	1.918	1.237	1.954	1.958	1.921	0.794	1.220	0.943
Max	2.887	3.028	2.743	2.918	2.879	3.003	3.033	3.029	2.863	3.047	2.749	3.394

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

From: 01-JAN-2003 to: 31-DEC-2003

SAMPLED BY: MBC Personnel
SAMPLED BY: BOA,G8C,JRF,IEN,LXP,DXS,JRV,SCV,JZI

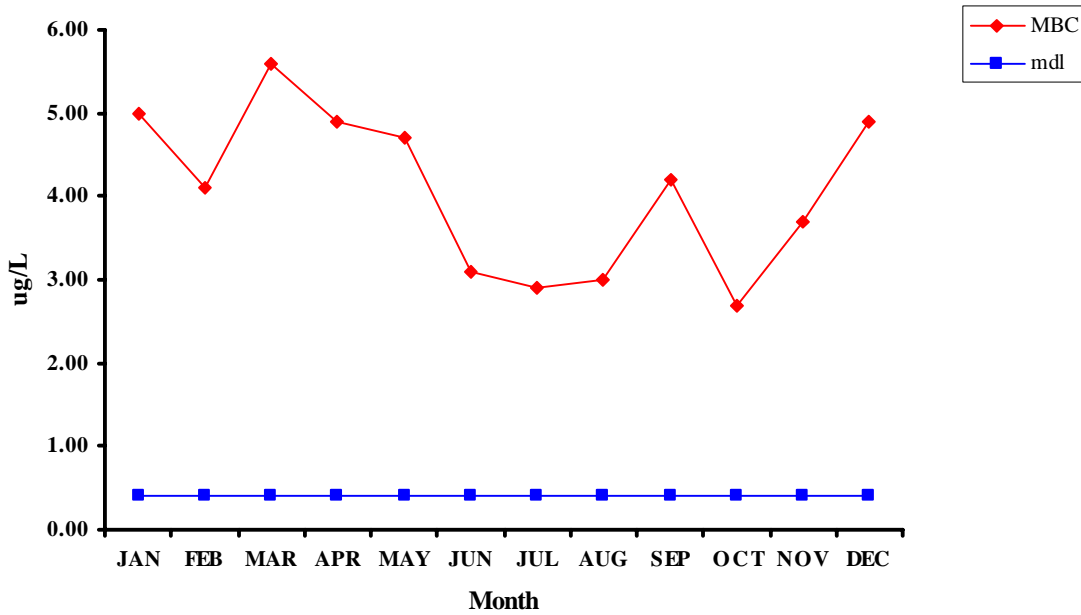
Source:		MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:		31-JAN-2003	28-FEB-2003	31-MAR-2003	30-APR-2003	31-MAY-2003	30-JUN-2003
Sample ID:		P203659its	P206115	P209556	P212595	P216230	P219529
Aluminum	50 UG/L	5030	2890	4360	2540	2160	3940
Antimony	23 UG/L	30.0	<23.0	ND	43.5	30.5	ND
Arsenic	.4 UG/L	5.0	4.1	5.6	4.9	4.7	3.1
Barium	10 UG/L	265	157	234	149	124	158
Beryllium	.39 UG/L	ND	ND	ND	ND	ND	ND
Cadmium	1 UG/L	ND	ND	2.1	ND	1.3	4.6
Chromium	5 UG/L	24	ND	17	9	<5	12
Cobalt	4 UG/L	ND	ND	ND	13.1	<4.0	<4.0
Copper	4 UG/L	291	159	308	191	229	264
Iron	30 UG/L	40000	27600	43700	31600	31400	31400
Lead	18 UG/L	ND	ND	ND	ND	24	ND
Manganese	4 UG/L	1100	1110	1030	854	768	648
Mercury	.09 UG/L	0.20	0.23	0.77	0.46	0.27	0.38
Molybdenum	3 UG/L	11.8	12.5	ND	ND	6.8	ND
Nickel	14 UG/L	21	22	22	31	26	21
Selenium	.28 UG/L	3.37	3.11	4.13	3.42	2.57	3.25
Silver	6.6 UG/L	10	ND	13	43	ND	ND
Thallium	40 UG/L	ND	ND	ND	ND	ND	ND
Vanadium	7 UG/L	ND	ND	ND	ND	ND	9.5
Zinc	4 UG/L	304	130	314	199	165	230

Source:		MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN	MBC_COMBCN
Date:		31-JUL-2003	31-AUG-2003	30-SEP-2003	31-OCT-2003	30-NOV-2003	31-DEC-2003
Sample ID:		P223944its	P228260	P232181	P235279	P239232	P242389
Aluminum	50 UG/L	3580	2710	3270	2490	4560	4890
Antimony	23 UG/L	45.8	<23.0	ND	ND	<23.0	ND
Arsenic	.4 UG/L	2.9	3.0	4.2	2.7	3.7	4.9
Barium	10 UG/L	169	142	179	149	246	241
Beryllium	.39 UG/L	ND	ND	ND	ND	ND	ND
Cadmium	1 UG/L	ND	<1.0	1.2	1.1	1.8	ND
Chromium	5 UG/L	18	ND	7	<5	9	20
Cobalt	4 UG/L	9.1	<4.0	ND	<4.0	7.1	5.5
Copper	4 UG/L	250	271	340	228	325	332
Iron	30 UG/L	27900	27000	34500	26500	39600	38600
Lead	18 UG/L	<18	ND	<18	ND	ND	ND
Manganese	4 UG/L	861	956	1100	947	1080	696
Mercury	.09 UG/L	0.39	0.24	0.35	0.32	0.50	0.67
Molybdenum	3 UG/L	6.5	ND	6.7	6.3	17.7	12.8
Nickel	14 UG/L	33	<14	24	ND	27	31
Selenium	.28 UG/L	3.86	2.38	2.81	2.43	3.23	4.19
Silver	6.6 UG/L	ND	ND	ND	ND	10	<7
Thallium	40 UG/L	ND	ND	ND	ND	ND	<40
Vanadium	7 UG/L	9.3	ND	<7.0	9.6	17.2	20.0
Zinc	4 UG/L	253	212	275	201	340	320

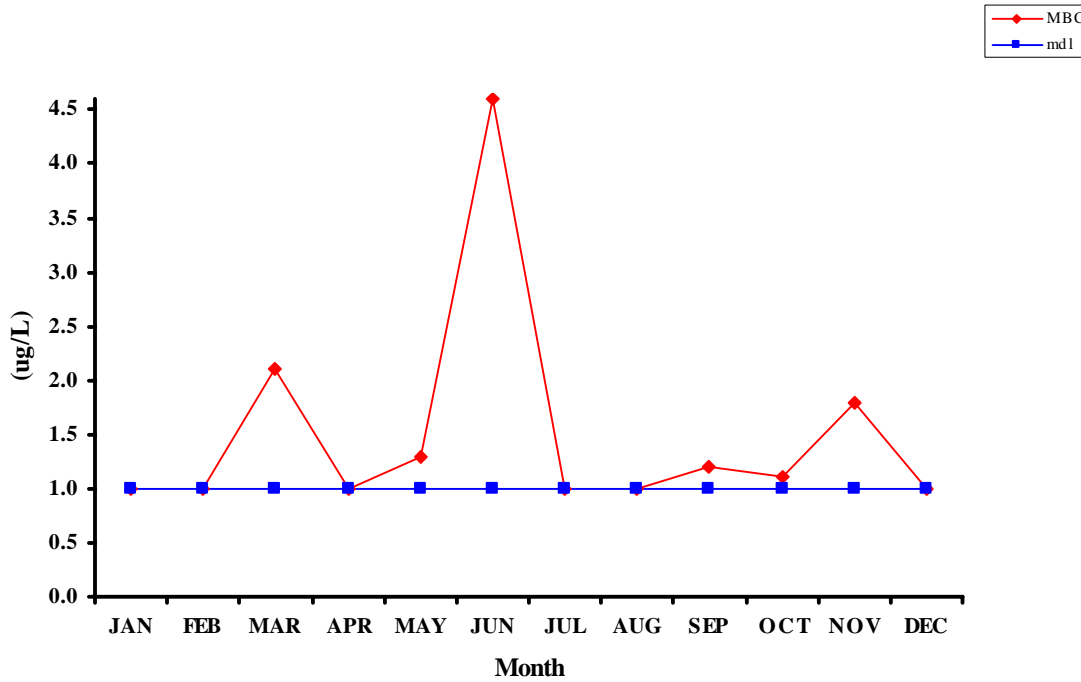
ND= Not Detected
NA= Not Analyzed
NS= Not Sampled
NR= Not Required

MBC_COMBCN= Metro Biosolids Center Combined Sludge Centrate.

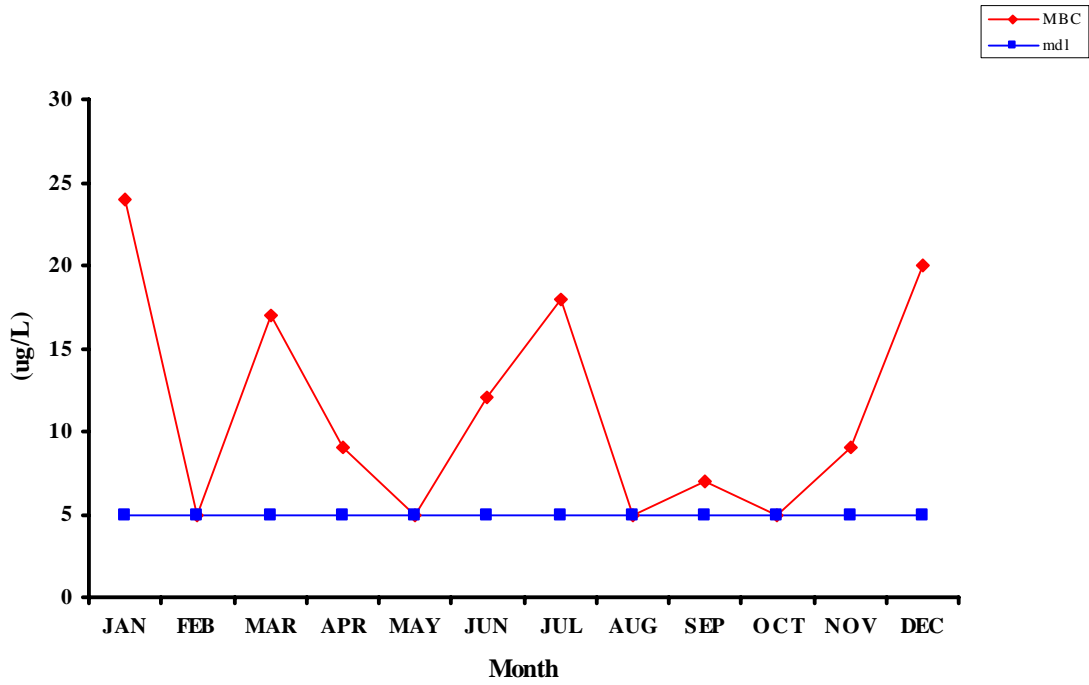
Arsenic 2003 Monthly Averages



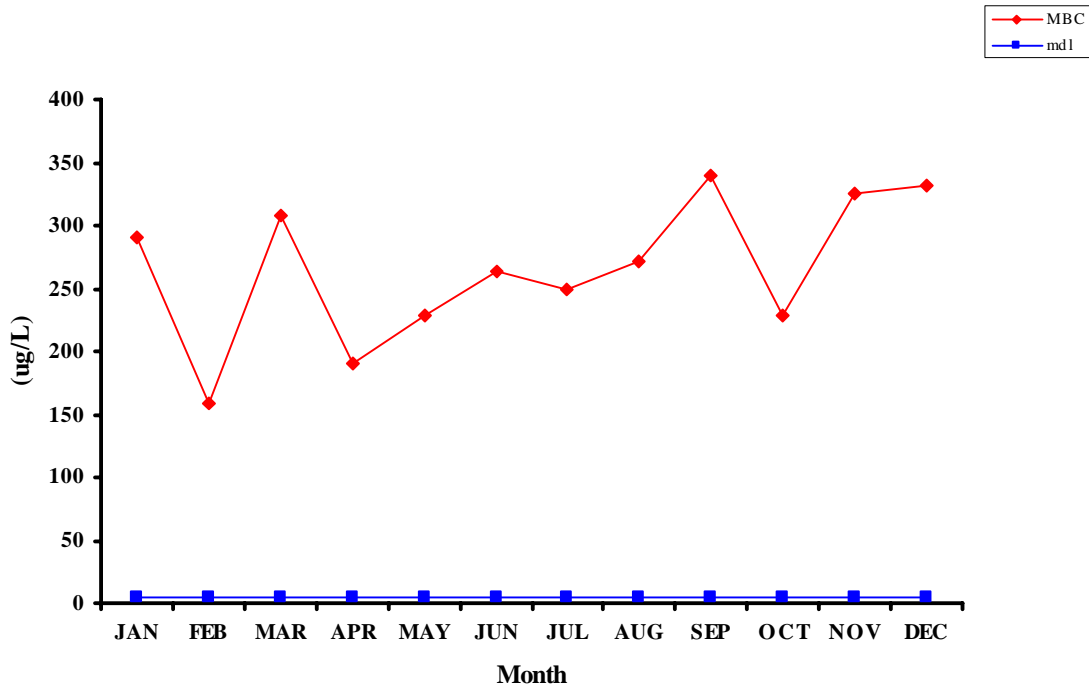
Cadmium 2003 Monthly Averages



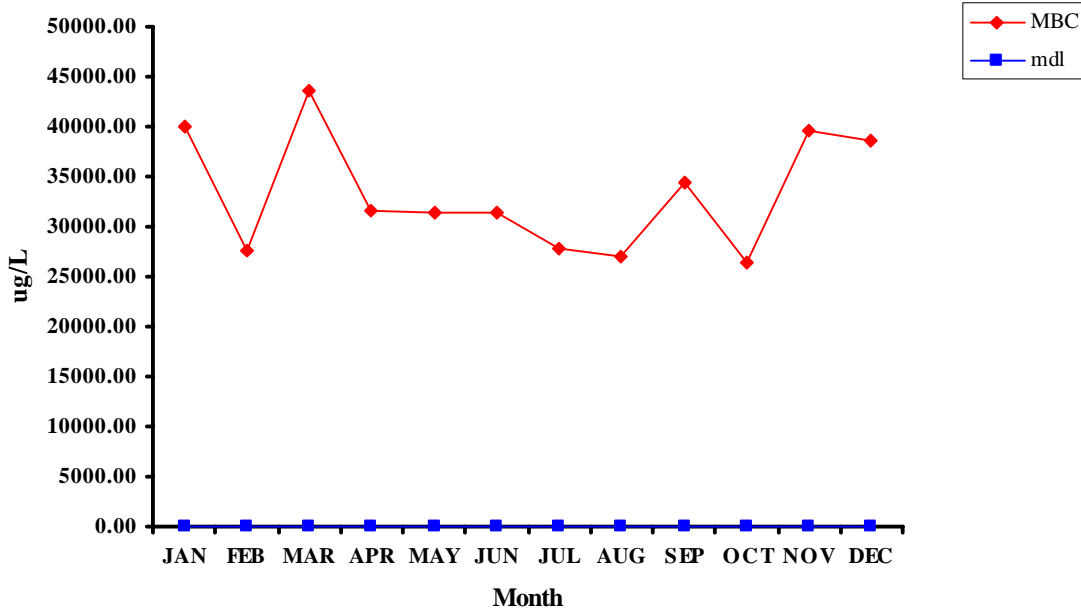
Chromium 2003 Monthly Averages



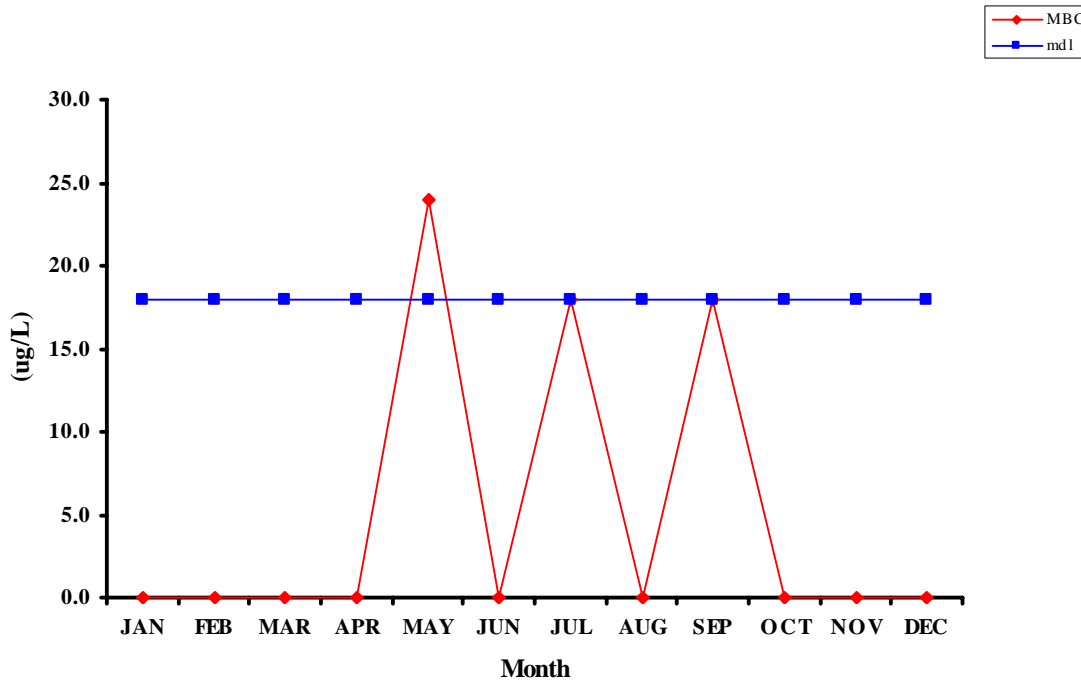
Copper 2003 Monthly Averages



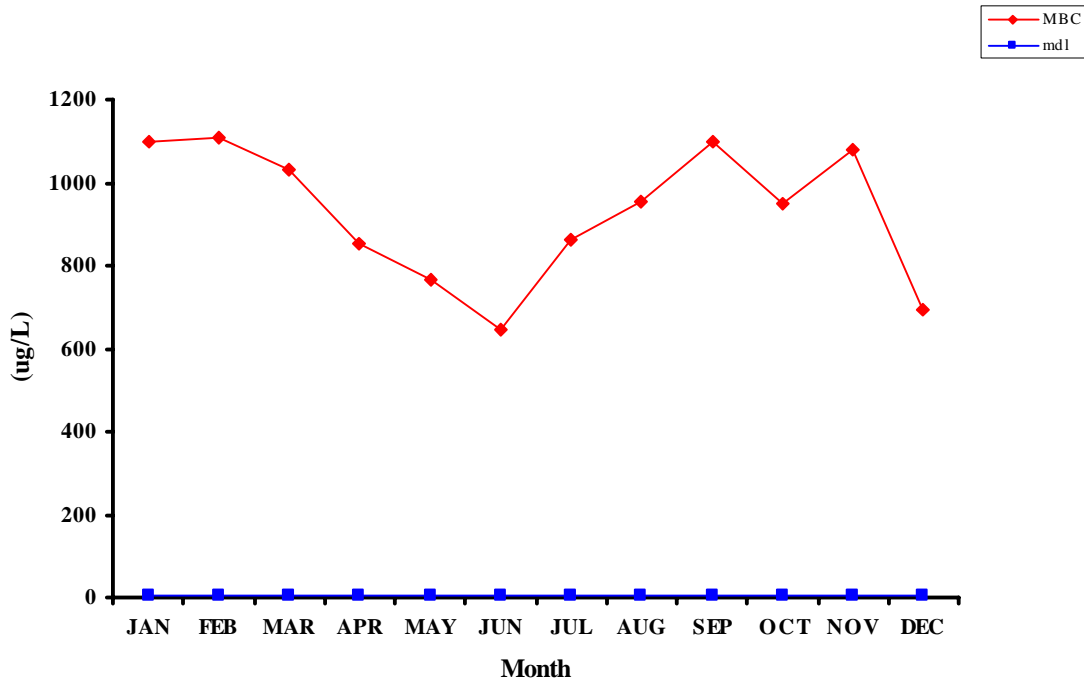
Iron 2003 Monthly Averages



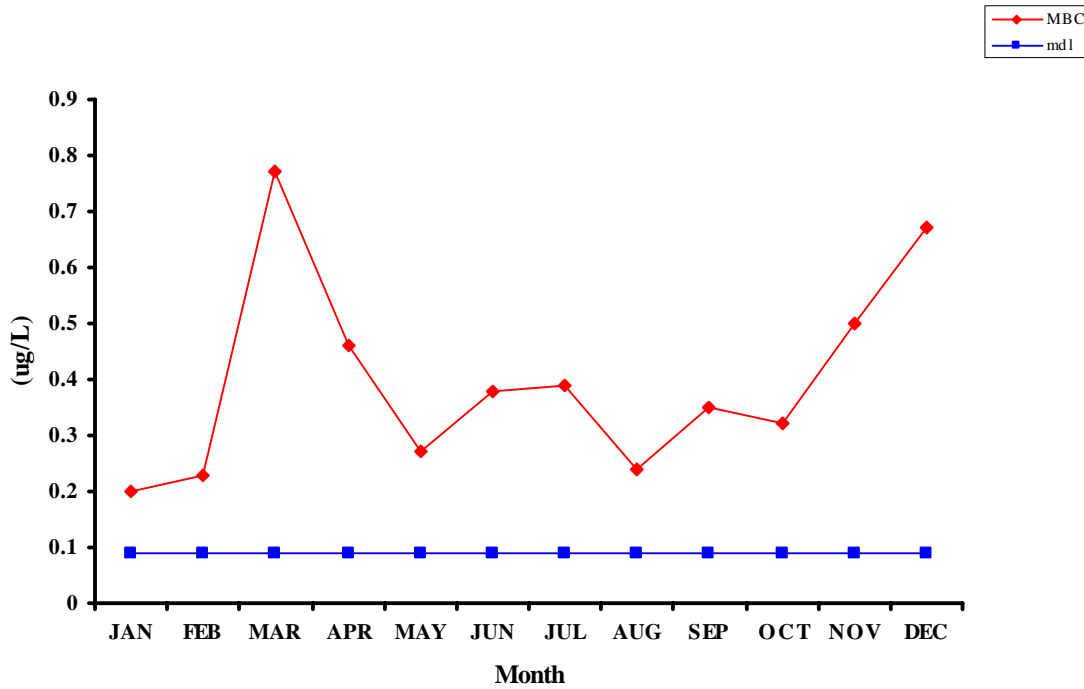
Lead 2003 Monthly Averages



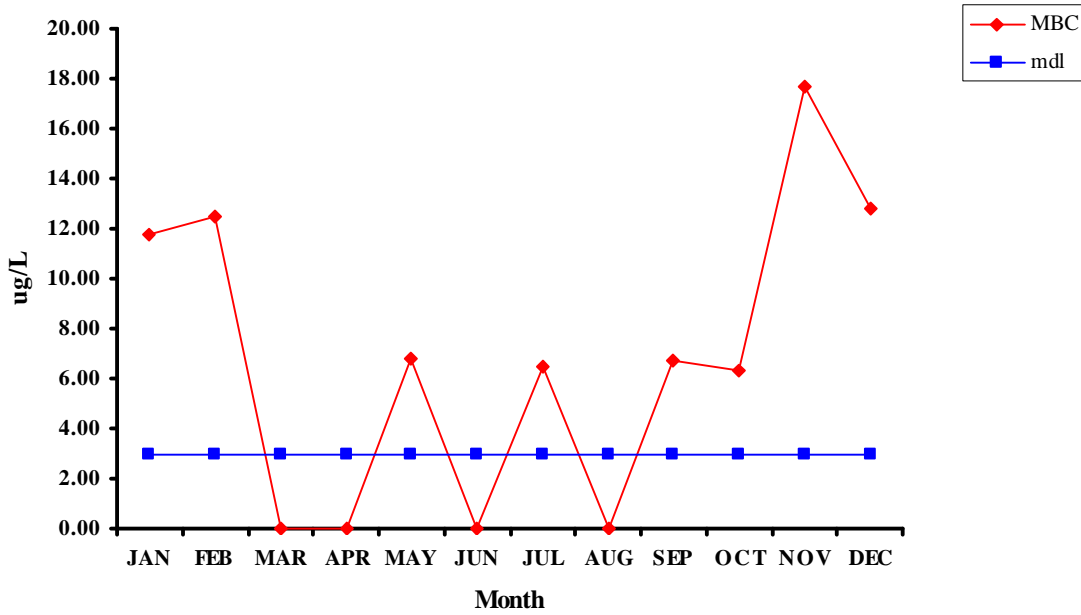
Manganese 2003 Monthly Averages



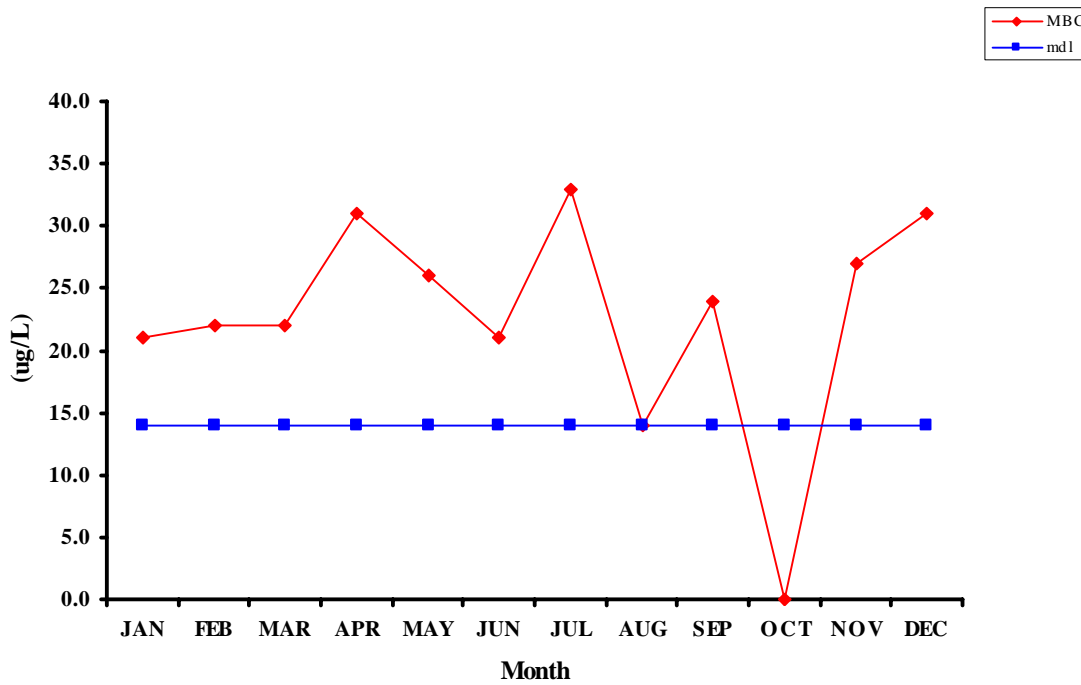
Mercury 2003 Monthly Averages



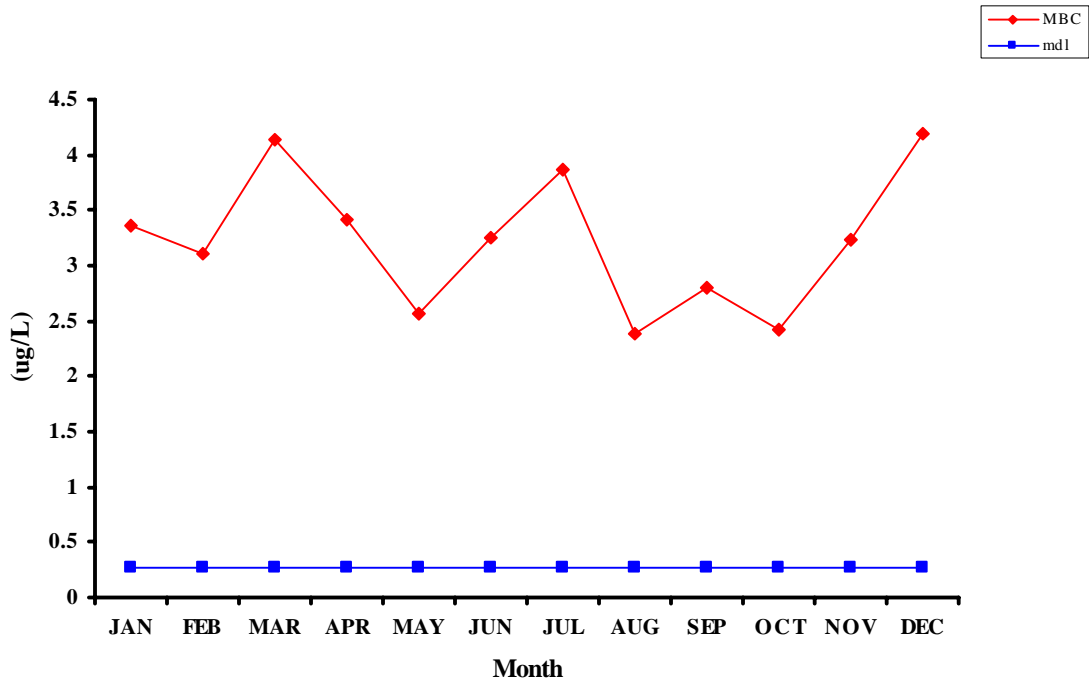
Molybdeum 2003 Monthly Averages



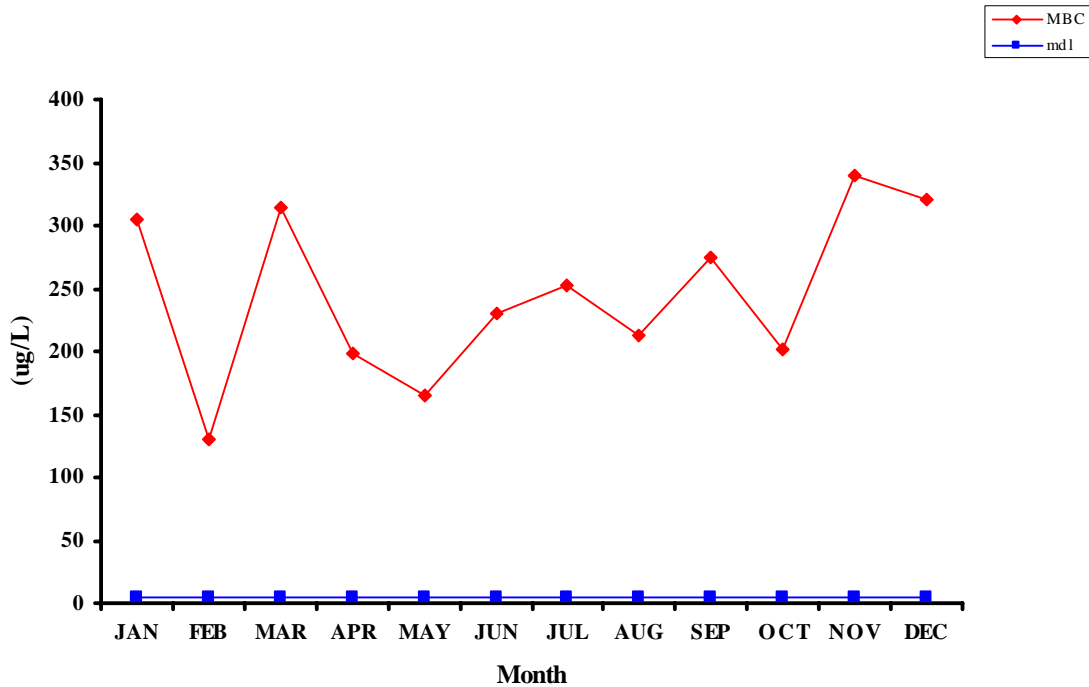
Nickel 2003 Monthly Averages



Selenium 2003 Monthly Averages



Zinc 2003 Monthly Averages



B. MBC Digester and Digested Sludge Data Summary

Metro Biosolids Center Annual Report Digesters - 2003

Digester 1

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2003	7.17	2.2	68.1	2440	130	59.3	40.7	20
FEBRUARY -2003	7.19	2.0	68.0	2400	126	60.1	39.9	21
MARCH -2003	7.14	2.1	64.0	2310	99	59.7	40.3	18
APRIL -2003	7.23	2.1	62.3	2390	105	59.4	40.6	21
MAY -2003	7.19	2.1	66.4	2320	96	60.1	39.9	19
JUNE -2003	7.12	2.1	67.1	2290	107	60.0	40.0	21
JULY -2003	7.15	2.0	65.6	2430	102	59.8	40.2	28
AUGUST -2003	7.18	2.4	65.5	2290	100	59.7	40.3	21
SEPTEMBER-2003	7.19	2.4	67.4	2320	103	60.1	39.9	18
OCTOBER -2003	7.07	2.4	67.4	2280	100	59.2	40.8	21
NOVEMBER -2003	7.15	2.0	65.4	2340	112	60.0	40.0	26
DECEMBER -2003	7.16	1.7	65.2	2670	117	59.5	40.6	29
Average:	7.16	2.1	66.0	2373	108	59.7	40.3	22

Digester 2

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2003								
FEBRUARY -2003								
MARCH -2003								
APRIL -2003								
MAY -2003								
JUNE -2003								
JULY -2003								
AUGUST -2003								
SEPTEMBER-2003								
OCTOBER -2003								
NOVEMBER -2003								
DECEMBER -2003								
	*	*	*	*	*	*	*	*

Digester 3

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2003								
FEBRUARY -2003								
MARCH -2003								
APRIL -2003								
MAY -2003								
JUNE -2003								
JULY -2003								
AUGUST -2003								
SEPTEMBER-2003								
OCTOBER -2003								
NOVEMBER -2003								
DECEMBER -2003								
	*	*	*	*	*	*	*	*

C. Gas Production

Metro Biosolids Center

Gas Report -2003

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	294,796.4			294,796.4	4,537	374,124	378,661
02	257,138.5			257,138.5	1,435	327,900	329,334
03	181,421.6			181,421.6	7,961	237,071	245,033
04	210,668.7			210,668.7	22,560	269,537	292,097
05	252,838.6			252,838.6	3,694	340,639	344,333
06	236,800.6			236,800.6	2,296	322,407	324,704
07	234,891.9			234,891.9	2,876	341,520	344,396
08	250,499.1			250,499.1	2,184	348,128	350,312
09	230,234.5			230,234.5	1,048	328,426	329,474
10	192,673.0			192,673.0	16,409	287,499	303,908
11	178,717.4			178,717.4	113,588	203,957	317,545
12	111,304.6			111,304.6	22,383	278,516	300,899
avg	219,332.1			219,332.1	16,748	304,977	321,725

Monthly Totals

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	9,138,688.0			9,138,688.0	140,647	11,597,844	11,738,491
02	7,199,879.0			7,199,879.0	40,168	9,181,193	9,221,361
03	5,624,070.0			5,624,070.0	246,804	7,349,215	7,596,019
04	6,320,061.0			6,320,061.0	676,813	8,086,108	8,762,921
05	7,837,997.0			7,837,997.0	114,523	10,559,814	10,674,337
06	7,104,017.0			7,104,017.0	68,892	9,672,218	9,741,110
07	7,281,649.0			7,281,649.0	89,159	10,587,118	10,676,277
08	7,765,471.0			7,765,471.0	67,707	10,791,974	10,859,681
09	6,907,035.0			6,907,035.0	31,431	9,852,780	9,884,211
10	5,972,864.0			5,972,864.0	508,688	8,912,464	9,421,152
11	5,361,522.0			5,361,522.0	3,407,632	6,118,705	9,526,337
12	3,450,444.0			3,450,444.0	693,865	8,634,003	9,327,868
avg	6,663,641.4			6,663,641.4	507,194	9,278,620	9,785,814
sum	79,963,697.0			79,963,697.0	6,086,329	111,343,436	117,429,765

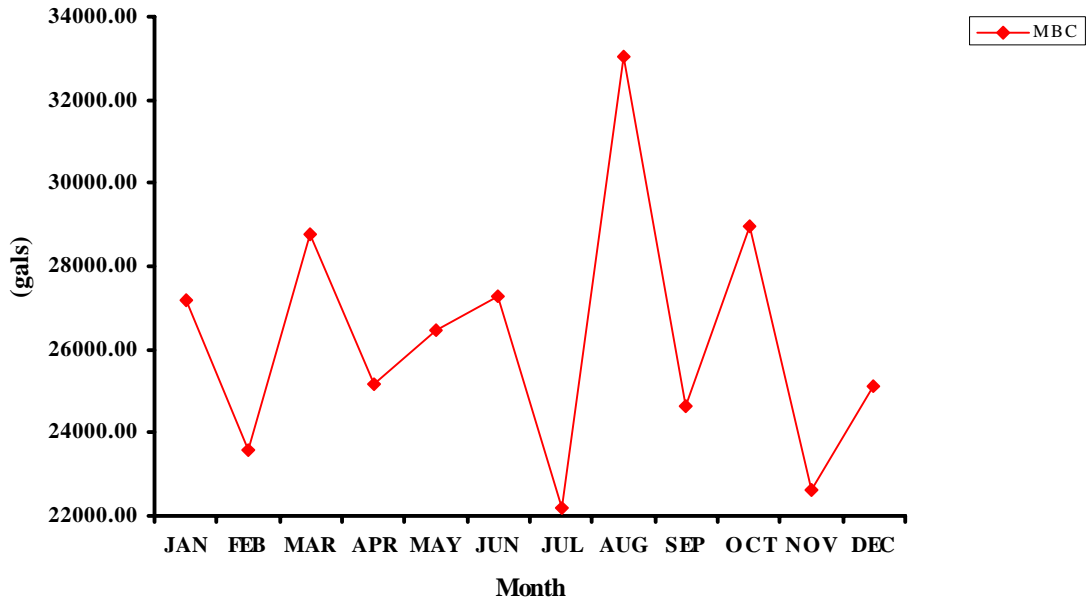
D. Chemical Usage

Metro Biosolids Center - Monthly Chemical Usage Report - 2003

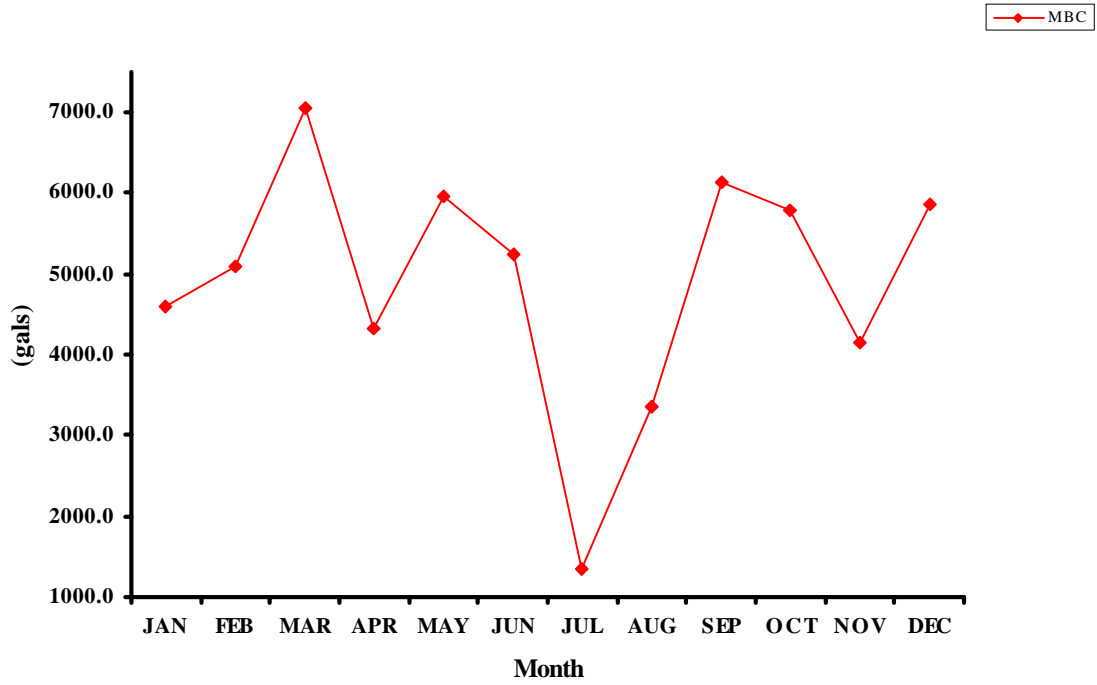
MON	Polymer Gallons	Ferric Chloride Gallons	Ferrous Chloride Gallons	Sodium Hydroxide Gallons	Hypochlorite Gallons	Sulfuric Acid Gallons
01	121,954	27,188		4,592	5,051	0
02	112,843	23,597		5,084	5,895	0
03	119,796	28,786		7,043	6,751	0
04	124,287	25,166		4,318	6,755	0
05	133,911	26,459		5,973	5,768	0
06	129,836	27,263		5,237	5,571	0
07	166,491	22,208		1,341	5,847	0
08	179,529	33,039		3,352	7,267	0
09	170,000	24,621		6,126	6,213	0
10	183,790	28,962		5,780	9,225	0
11	158,700	22,621		4,160	5,736	0
12	174,971	25,110		5,867	8,273	0
avg	148,009	26,252		4,906	6,529	0
sum	1,776,108	315,020		58,872	78,352	0

E. Graphs of Monthly Chemical Usage

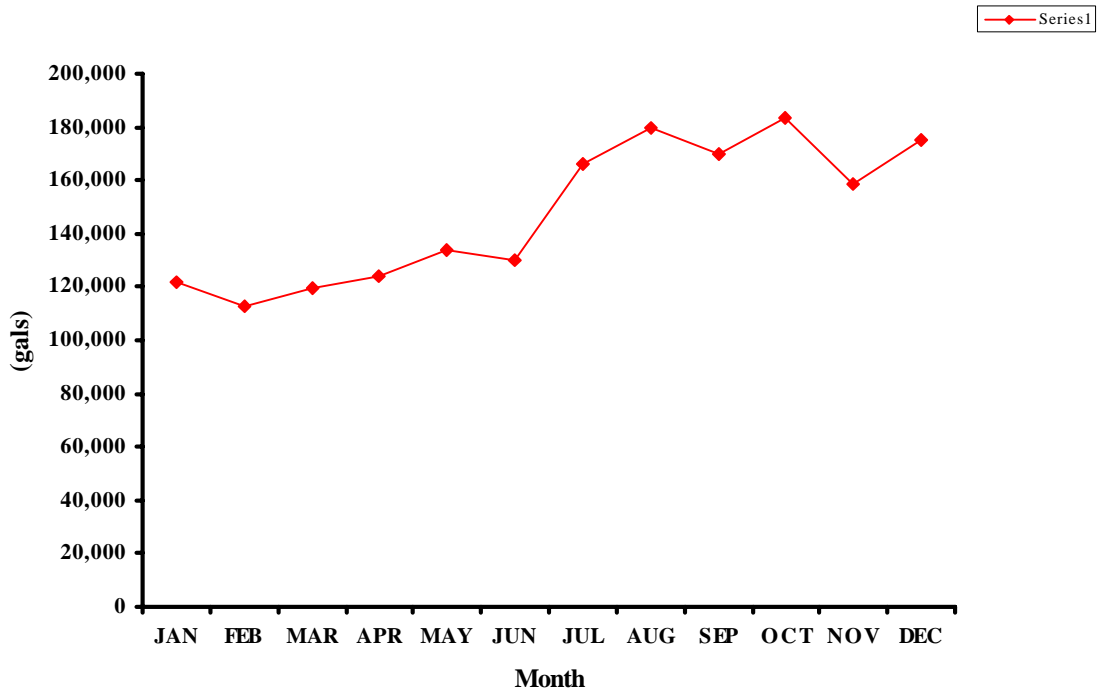
**Ferric Chloride
2003 Monthly Chemical Usage**



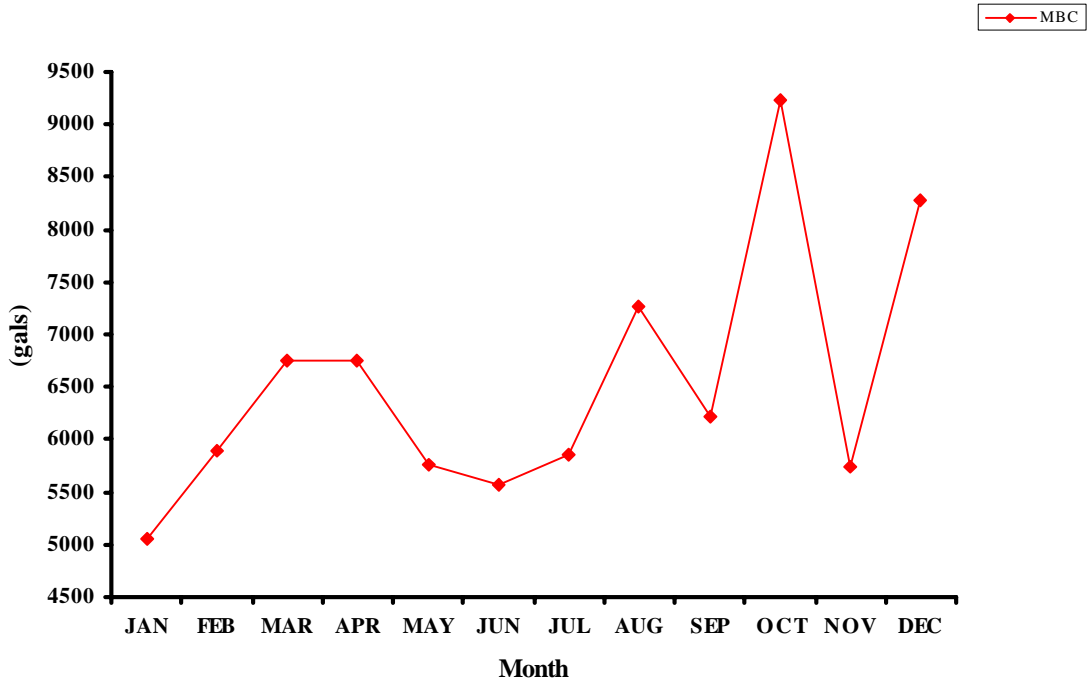
Caustic 2003 Monthly Chemical Usage



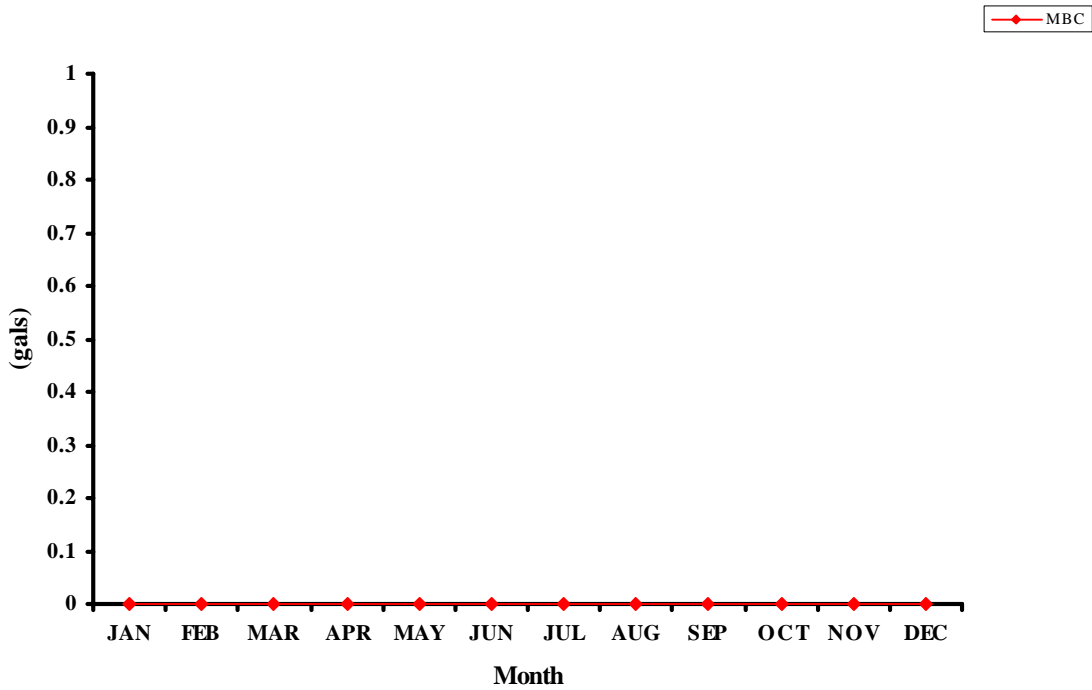
Polymer 2003 Monthly Chemical Usage



Sodium Hypochlorite 2003 Monthly Chemical Usage



Sulfuric Acid 2003 Monthly Chemical Usage



F. Facilities Out-of-service Report (2003)

FACILITY: DATES OUT OF SERVICE

DEWATERING CENTRIFUGES

DEWATERING CENTRIFUGE 1	01/07/03-01/07/03, 01/13/03-01/13/03, 01/13/03-01/16/03, 02/01/03-02/01/03, 02/04/03-02/03/03, 03/04/03-03/05/03, 04/02/03-04/02/03, 04/02/03-04/08/03, 04/07/03-04/23/03, 04/24/03-05/01/03, 05/15/03-07/14/03, 10/01/03-10/03/03, 10/03/03-10/03/03, 11/10/03-11/10/03, 12/29/03-12/30/03
DEWATERING CENTRIFUGE 2	04/21/03-04/30/03, 05/15/03-05/17/03, 05/20/03-05/27/03, 05/22/03-05/22/03, 06/02/03-06/02/03, 06/02/03-06/03/03, 06/26/03-06/26/03, 07/29/03-07/30/03
DEWATERING CENTRIFUGE 3	01/31/03-02/05/03, 04/21/03-04/22/03, 07/01/03-07/02/03, 07/08/03-07/21/03, 10/03/03-10/03/03, 11/13/03-11/13/03, 12/04/03-12/04/03
DEWATERING CENTRIFUGE 4	01/03/03-01/24/03, 01/09/03-01/23/03, 01/21/03-01/21/03, 02/24/03-02/24/03, 02/24/03-02/25/03, 04/01/03-04/01/03, 06/25/03-06/25/03, 06/25/03-06/25/03, 06/25/03-06/26/03, 07/08/03-07/10/03, 07/10/03-07/10/03, 07/11/03-12/03/03, 07/14/03-07/21/03, 07/15/03-07/23/03, 07/18/03-07/21/03, 09/29/03-10/06/03, 09/29/03-10/03/03, 10/02/03-10/13/03, 10/20/03-10/23/03, 10/21/03-10/23/03, 11/19/03-12/02/03, 11/24/03-11/25/03
DEWATERING CENTRIFUGE 5	01/08/03-01/08/03, 01/17/03-02/12/03, 01/21/03-01/21/03, 02/24/03-02/24/03, 02/24/03-03/05/03, 02/24/03-03/12/03, 03/06/03-03/20/03, 03/10/03-03/12/03
DEWATERING CENTRIFUGE 6	03/03/03-03/04/03, 03/25/03-04/02/03, 03/25/03-04/25/03, 04/21/03-04/21/03, 04/21/03-04/28/03, 05/12/03-05/12/03, 05/12/03-05/13/03, 07/01/03-07/02/03, 09/03/03-09/03/03, 09/16/03-09/16/03, 09/22/03-09/23/03, 10/06/03-10/08/03
DEWATERING CENTRIFUGE 7	01/13/03-01/13/03, 01/21/03-02/03/03, 05/06/03-05/08/03, 05/23/03-05/29/03, 06/02/03-06/05/03, 10/13/03-10/21/03, 10/21/03-10/21/03, 10/22/03-10/22/03, 12/19/03-12/19/03
DEWATERING CENTRIFUGE 8	01/23/03-01/24/03, 01/28/03-02/03/03, 05/22/03-06/11/03, 06/12/03-06/18/03

THICKENING CENTRIFUGES

THICKENING CENTRIFUGE 1	10/08/03-10/09/03
THICKENING CENTRIFUGE 2	04/08/03-04/17/03, 04/16/03-04/21/03, 07/14/03-12/31/03
THICKENING CENTRIFUGE 3	04/14/03-04/21/03, 07/28/03-07/29/03, 07/31/03-08/04/03
THICKENING CENTRIFUGE 4	01/21/03-01/21/03

CENTRATE PUMPS

CENTRATE PUMP 1	01/15/03-01/15/03, 04/04/03-04/29/03, 07/01/03-12/31/03, 12/08/03-12/31/03
CENTRATE PUMP 2	01/06/03-01/08/03, 04/03/03-04/03/03, 04/03/03-04/03/03, 04/04/03-04/16/03
CENTRATE PUMP 3	04/03/03-04/03/03, 04/03/03-04/03/03, 04/03/03-04/04/03, 04/08/03-04/26/03, 06/26/03-12/31/03, 07/01/03-12/31/03

DEGRITTING SYSTEM

GRIT SEPARATOR 2	07/14/03-07/24/03, 12/05/03-12/31/03, 12/31/03-01/03/04
GRIT SEPARATOR 3	08/04/03-12/31/03, 12/30/03-12/31/03, 12/31/03-12/31/03

BIOGAS FLARES

FLARE 1	08/29/03-01/00/00, 11/07/03-11/07/03
FLARE 2	01/15/03-01/15/03, 08/25/03-10/22/03, 11/07/03-01/06/04, 12/29/03-12/29/03, 12/29/03-12/29/03

DIGESTERS

DIGESTER 1	01/08/03-01/08/03, 01/14/03-01/15/03, 01/14/03-01/15/03, 01/27/03-01/27/03, 02/14/03-03/26/03, 03/11/03-03/11/03, 03/11/03-03/12/03, 03/12/03-03/13/03, 03/19/03-03/21/03, 03/21/03-03/21/03, 04/01/03-04/01/03, 06/26/03-08/19/03, 11/18/03-12/24/03, 11/19/03-11/21/03, 12/20/03-12/20/03
DIGESTER 2	03/24/03-11/06/03, 12/05/03-12/31/03
DIGESTER 3	09/09/03-12/31/03

BIOSOLIDS STORAGE TANKS

BIOSOLIDS STORAGE TANK	01/14/03-01/15/03, 01/14/03-01/15/03, 12/29/03-12/31/03
EM BIOSOLIDS STORAGE TANK	02/19/03-02/21/03, 07/14/03-07/28/03

FACILITIES THAT WERE OUT OF SERVICE IN 2003 BY DATE

Facility	From	To	Notes
DEWATERING CENTRIFUGE 1	01/07/03	01/07/03	Replace oil filter and clean hydraulic spill
DEWATERING CENTRIFUGE 1	01/13/03	01/13/03	DC # 1 differential control not responding to the DCS command.
DEWATERING CENTRIFUGE 1	01/13/03	01/16/03	DC # 1 differential control not responding to the DCS command.
DEWATERING CENTRIFUGE 1	02/01/03	02/01/03	ADD TEN GALLONS OF OIL. THIS WAS A EMERGENCY CALL OUT
DEWATERING CENTRIFUGE 1	02/04/03	02/03/03	Clean water from oil tank, Clean vent holes at pillow block bearing.
DEWATERING CENTRIFUGE 1	03/04/03	03/05/03	Backdrive fan is inoperable.
DEWATERING CENTRIFUGE 1	04/02/03	04/02/03	Unit is packed with Sludge. Please clean unit.
DEWATERING CENTRIFUGE 1	04/02/03	04/08/03	Unit is packed with sludge,
DEWATERING CENTRIFUGE 1	04/07/03	04/23/03	Clear Clogged Drain.
DEWATERING CENTRIFUGE 1	04/24/03	05/01/03	Flood drain near DC#1 is draining extremely slow and causing large ponding of centrate. Please provide plumber to clear drain with snake.
DEWATERING CENTRIFUGE 1	05/15/03	07/14/03	Remove rotating assembly from DC#1 and replace unit with repaired spare assembly. Notify Senior PTS of spare assembly pervious location.
DEWATERING CENTRIFUGE 1	10/01/03	10/03/03	DC #1 tripping off on backdrive malfunction.
DEWATERING CENTRIFUGE 1	10/03/03	10/03/03	Please grease the unit after CIP.
DEWATERING CENTRIFUGE 1	11/10/03	11/10/03	DC #1 backdrive motor fan not operating.
DEWATERING CENTRIFUGE 1	12/29/03	12/30/03	DC #1 continues to trip off on backdrive malfunction.
DEWATERING CENTRIFUGE 2	04/21/03	04/30/03	Please replace 21 Tiles on Conveyor.
DEWATERING CENTRIFUGE 2	05/15/03	05/17/03	Found damage Accelerator during PM procedure. Remove assembly from DC#2 and install spare rotating assembly into DC#2.
DEWATERING CENTRIFUGE 2	05/20/03	05/27/03	Provide Welder for repair of two tiles on spare dewatering Centrifuge (unit will be installed immediately after repairs)
DEWATERING CENTRIFUGE 2	05/22/03	05/22/03	Repair all damage feed tube liners and accelerator liners

Facility	From	To	Notes
DEWATERING CENTRIFUGE 2	06/02/03	06/02/03	Erratic load readings ranging rapidly from 75 to 50 to 30 and less causing diverting gate traveling from Centrate/Solids. Please check all ABC control limits.
DEWATERING CENTRIFUGE 2	06/02/03	06/03/03	Erratic load readings ranging rapidly from 75 to 50 to 30 and less causing diverting gate traveling from Centrate/Solids. Please check all ABC control limits.
DEWATERING CENTRIFUGE 2	06/26/03	06/26/03	Back drive motor fan not operating, motor hot.
DEWATERING CENTRIFUGE 2	07/29/03	07/30/03	DC # 2 tripping off on low oil flow.
DEWATERING CENTRIFUGE 3	01/31/03	02/05/03	There is a high frequency noise emanating from unit 76-DC-03, I traced it to the cooling fan mounted on the BONITRON regeneration module. It needs to be replaced.
DEWATERING CENTRIFUGE 3	04/21/03	04/22/03	DC#3 has high vibration and the bolts for the cover are lose
DEWATERING CENTRIFUGE 3	07/01/03	07/02/03	Centrifuge #3, 76DC003, tripped off on high vibration 3 times; possibly need to check vibration sensors.
DEWATERING CENTRIFUGE 3	07/08/03	07/21/03	Weld between ten and fifteen (10 - 15) Tiles on the conveyor of DC - 3
DEWATERING CENTRIFUGE 3	10/03/03	10/03/03	Troubleshoot the DCS to know why the Centrifuge failed to start.
DEWATERING CENTRIFUGE 3	11/13/03	11/13/03	DC is experiencing high vibrations. Leo will look at possible feed tube problem in AM.
DEWATERING CENTRIFUGE 3	12/04/03	12/04/03	DC #3 tripped on back drive malfunction, back drive needs to be reset. The DC tripped on high-high torque 2 times last night.
DEWATERING CENTRIFUGE 4	01/03/03	01/24/03	Assist Alfa Laval with 24 Month PM.
DEWATERING CENTRIFUGE 4	01/09/03	01/23/03	Weld four tiles on conveyor.
DEWATERING CENTRIFUGE 4	01/21/03	01/21/03	Install CPU into controls. Remove CPU from DC#2 and install CPU into DC#4. Notify Ops to test run DC4 when available.
DEWATERING CENTRIFUGE 4	02/24/03	02/24/03	DC #4 tripped off, alarm indicated back drive malfunction.
DEWATERING CENTRIFUGE 4	02/24/03	02/25/03	DC #4 tripped off, alarm indicated back drive malfunction.
DEWATERING CENTRIFUGE 4	04/01/03	04/01/03	Centrate line is leaking large qty. of water that is flowing to the first level and impeding the access to cake hatch at cake pump 4.
DEWATERING CENTRIFUGE 4	06/25/03	06/25/03	Need to trouble shoot & fix diverter gate tripped in overload.

Facility	From	To	Notes
DEWATERING CENTRIFUGE 4	06/25/03	06/25/03	Need to trouble shoot & fix diverter gate tripped in overload.
DEWATERING CENTRIFUGE 4	06/25/03	06/26/03	Dewtr. Centrif. #4 "lost Data Link" will not stop...Emergency shutdown. Need Electrician to reset data link & troubleshoot.
DEWATERING CENTRIFUGE 4	07/08/03	07/10/03	DC 4 has gone out on Drive Motor Overload three times, even after CIPs.
DEWATERING CENTRIFUGE 4	07/10/03	07/10/03	Flash seen from makeup box on main drive motor. Investigate cause of arching.
DEWATERING CENTRIFUGE 4	07/11/03	12/03/03	Rewind 250 hp Motor
DEWATERING CENTRIFUGE 4	07/14/03	07/21/03	Major failure of Centrifuge. Rebuild conveyor.
DEWATERING CENTRIFUGE 4	07/15/03	07/23/03	Weld 70 new tiles on failed conveyor.
DEWATERING CENTRIFUGE 4	07/18/03	07/21/03	Disconnect motor leads and remove conduit for transport of motor to Rewind shop.
DEWATERING CENTRIFUGE 4	09/29/03	10/06/03	Install spare rotating assembly into DC#4.
DEWATERING CENTRIFUGE 4	09/29/03	10/03/03	Replace pillow block bearings on damaged spare conveyor.
DEWATERING CENTRIFUGE 4	10/02/03	10/13/03	Manufacture one spacer shim, sample is provided
DEWATERING CENTRIFUGE 4	10/20/03	10/23/03	Replace pillow block bearings (2 sets) DC#4 conveyor.
DEWATERING CENTRIFUGE 4	10/21/03	10/23/03	Allen bolt is frozen in pillow block collar. Please extract bolt. Problem shown to Machinist and shop supervisor.
DEWATERING CENTRIFUGE 4	11/19/03	12/02/03	Install recondition conveyor into Bowl with overhauled pillow block bearings for DC#4.
DEWATERING CENTRIFUGE 4	11/24/03	11/25/03	Install reconditioned control card in DC controls.
DEWATERING CENTRIFUGE 5	01/08/03	01/08/03	Polymer feed line is plugged. Please clean line.
DEWATERING CENTRIFUGE 5	01/17/03	02/12/03	Please replace and weld new tile (1) on conveyor.
DEWATERING CENTRIFUGE 5	01/21/03	01/21/03	Dewtr. Centrif. #5 (76DC005) tried to start 2 times today and it went to a high load too fast and tripped out on high torque/ back drive malfunction.
DEWATERING CENTRIFUGE 5	02/24/03	02/24/03	DC #5 poly and sludge feed pumps continue to default to manual from auto when in operation, indicating bad quality signals on sludge and poly flow meters.
DEWATERING CENTRIFUGE 5	02/24/03	03/05/03	Please exchange spare rotating assembly and install in DC#5

Facility	From	To	Notes
DEWATERING CENTRIFUGE 5	02/24/03	03/12/03	DC #5 poly and sludge feed pumps continue to default to manual from auto when in operation, indicating bad quality signals on sludge and poly flow meters.
DEWATERING CENTRIFUGE 5	03/06/03	03/20/03	Remove and replace damaged accelerator from spare unit on centrifuge flood
DEWATERING CENTRIFUGE 5	03/10/03	03/12/03	Need welder to make repair on One missing tile on DC conveyor.
DEWATERING CENTRIFUGE 6	03/03/03	03/04/03	Troubleshoot Centrifuge Back Drive, Operations thinks it is a fuse. Work Request number 967
DEWATERING CENTRIFUGE 6	03/25/03	04/02/03	Remove rotating assembly from DC#6 and replace will spare assembly on centrifuge floor.
DEWATERING CENTRIFUGE 6	03/25/03	04/25/03	Remove damage feed tube liner section with assistance from Alfa Laval Technician
DEWATERING CENTRIFUGE 6	04/21/03	04/21/03	Master Valve station for Valves on DC#6 needs to be reset.
DEWATERING CENTRIFUGE 6	04/21/03	04/28/03	Need special tool constructed for removal of Feed tube line on DC#6. Drawing supplied by Luis Posas to Machine shop.
DEWATERING CENTRIFUGE 6	05/12/03	05/12/03	DC #6 tripped on high-high vibration 3 times, CIP'd and restarted. After CIP the DC still tripped on high-high vibration.
DEWATERING CENTRIFUGE 6	05/12/03	05/13/03	Check DC#6 for cause of high vibration after 24 hours of operation.
DEWATERING CENTRIFUGE 6	07/01/03	07/02/03	Centrifuge tripped out on Back drive malfunction, needs to be reset and checked.
DEWATERING CENTRIFUGE 6	09/03/03	09/03/03	Have loss of communication at DC control PLC. Please check comm. connections and program.
DEWATERING CENTRIFUGE 6	09/16/03	09/16/03	DC is tripping on High vibration; Ops will do multiple CIP's. Please grease the bearings.
DEWATERING CENTRIFUGE 6	09/22/03	09/23/03	Tripped out on high torque 2 times...CIP'd unit 2 times...Greased and restarted...tripped out again on high torque...need to have plant tech check it out.
DEWATERING CENTRIFUGE 6	10/06/03	10/08/03	Assist Alfa Laval with 12 month PM
DEWATERING CENTRIFUGE 7	01/13/03	01/13/03	Please check Communication link and Cables in unit. Unable to control DC 7 differential. It is not responding to DCS commands and the indicator lights on the panel are out.
DEWATERING CENTRIFUGE 7	01/21/03	02/03/03	Floor drain is clogged and will not drain. Need Plumber to clean drain with snake.
DEWATERING CENTRIFUGE 7	05/06/03	05/08/03	Slight leak at DC#7 flush water valve.
DEWATERING CENTRIFUGE 7	05/23/03	05/29/03	Found Damaged Accelerator during PM. Accelerator liner will need replaced.

Facility	From	To	Notes
DEWATERING CENTRIFUGE 7	06/02/03	06/05/03	Repair damaged accelerator from removed assembly from DC#7
DEWATERING CENTRIFUGE 7	10/13/03	10/21/03	Need welder to replace 1 to 5 tiles found broken during PM inspection.
DEWATERING CENTRIFUGE 7	10/21/03	10/21/03	Loud noise coming from shroud near gearbox. Please pull guard back from Gearbox.
DEWATERING CENTRIFUGE 7	10/22/03	10/22/03	Reset electrical controls
DEWATERING CENTRIFUGE 7	12/19/03	12/19/03	Centrifuge will not start, please reset panel controls.
DEWATERING CENTRIFUGE 8	01/23/03	01/24/03	Back drive motor fan not operating.
DEWATERING CENTRIFUGE 8	01/28/03	02/03/03	12 X 36 trench drains for DC #8 centrifuge observation line is plugged; Leo said to call in a plumber since his drain equipment won't clear line.
DEWATERING CENTRIFUGE 8	05/22/03	06/11/03	Replace as required, Feed Zone Liner and Accelerator.
DEWATERING CENTRIFUGE 8	06/12/03	06/18/03	Weld two tiles on conveyor
THICKENING CENTRIFUGE 1	10/08/03	10/09/03	Cooling water to the bearing oil is being restricted. The temperature is holding steady at 118 degrees. I spoke to Wayne and he feels that the unit can still be used as long the temp doesn't rise any higher.
THICKENING CENTRIFUGE 2	04/08/03	04/17/03	Need to replace two tiles on the conveyor of TC#1
THICKENING CENTRIFUGE 2	04/16/03	04/21/03	Need welder to repair 7 damage tiles on Conveyor #2. Need repairs in order for Alfa Laval to continue PMA
THICKENING CENTRIFUGE 2	07/14/03	12/31/03	The piping (sludge feed & poly) under the floor for TC#1 & TC#2 are shaking when the machines are running. Please check the brackets for tightening, possible rubbing action could create leakage in the poly feed line.
THICKENING CENTRIFUGE 3	04/14/03	04/21/03	Need Welder to repair 3 conveyor tiles that were discovered during Alfa Laval PMA inspection.
THICKENING CENTRIFUGE 3	07/28/03	07/29/03	TC #3 needs to be checked out. High fluctuating back drive readings, causing unit to continue to go into high torque, sludge thickening is unstable.
THICKENING CENTRIFUGE 3	07/31/03	08/04/03	The Halogen lights (2) in the Thickening wet well are Out of Service...there was a temporary light installed that is not bright enough to see the thickening process on TC #3...please have an electrician replace the halogen bulbs (we have some in 76 control room) so we can see this for proper thickening.

Facility	From	To	Notes
THICKENING CENTRIFUGE 4	01/21/03	01/21/03	Assist Alfa Laval with 6 Month PM
CENTRATE PUMP 1	01/15/03	01/15/03	Pump tripped off line without any alarm indication. Please check VFD/control panel for local alarm indication. Reset alarms as required.
CENTRATE PUMP 1	04/04/03	04/29/03	Open and clean, with pressure washer, pump internals and air release valve internals.
CENTRATE PUMP 1	07/01/03	12/31/03	GLAND SEAL WATER FLOW METER IS STUCK AND WILL NOT ADJUST. FOUND ON WORK ORDER 38970
CENTRATE PUMP 1	12/08/03	12/31/03	MV1126 keeps going into and out of travel. This problem is very erratic, use WO when valve is having problems.
CENTRATE PUMP 2	01/06/03	01/08/03	Seal water is in Alarm in VFD. Check seal water solenoid for proper operation. Replace if required.
CENTRATE PUMP 2	04/03/03	04/03/03	CENTRATE PUMP #2 WILL NOT OPERATE. VARIABLE FREQUENCY DRIVE DEFAULTING TO SATURATION ALARM STATUS. PLEASE INVESTIGATE AND CORRECT PROBLEM
CENTRATE PUMP 2	04/03/03	04/03/03	Check Centrate Pumps # 2 and 3 if clog. clear as necessary
CENTRATE PUMP 2	04/04/03	04/16/03	Open and clean, with pressure washer, pump internals and air release valve internals.
CENTRATE PUMP 3	04/03/03	04/03/03	CENTRATE PUMP #3 WILL NOT OPERATE. VARIABLE FREQUENCY DRIVE DEFAULTING TO SATURATION ALARM STATUS. PLEASE INVESTIGATE AND CORRECT PROBLEM
CENTRATE PUMP 3	04/03/03	04/03/03	Chemical bath pump.
CENTRATE PUMP 3	04/03/03	04/04/03	Chemical bath pump internals
CENTRATE PUMP 3	04/08/03	04/26/03	Open and clean, with pressure washer, air release valve and discharge check valve internals.
CENTRATE PUMP 3	06/26/03	12/31/03	Site gauge for seal water has a stuck indicator in the full flow position, need tech to investigate and repair as needed.
CENTRATE PUMP 3	07/01/03	12/31/03	GLAND SEAL WATER FLOW METER IS STUCK AND WILL NOT ADJUST. FOUND ON WORK ORDER 38976
GRIT SEPARATOR 2	07/14/03	07/24/03	Trouble shoots and repair position indicator.
GRIT SEPARATOR 2	12/05/03	12/31/03	Need tech to investigate 76-MV-1106 (Teacup #2, Discharge Diverter valve to Grit Snail #1). Valve will not operate from the LCP.
GRIT SEPARATOR 2	12/31/03	01/03/04	Clean lower piping on Teacup. Remove at Unions and clean with pressure washer, reassembly.

Facility	From	To	Notes
GRIT SEPARATOR 3	08/04/03	12/31/03	Trouble shoot source of leak on top of Teacup.
GRIT SEPARATOR 3	12/30/03	12/31/03	Grit separator #3 has a leak on the top of the unit...this would be a good unit to pull this 18 inch cover that is leaking, to inspect what is needed to clean the unit inside...units have not been opened/ cleaned for 4 years.
GRIT SEPARATOR 3	12/31/03	12/31/03	Remove access hatch at top of tank and bring to Welding shop. Clean lower piping on Teacup. Remove at Unions and clean with pressure washer, reassembly.
FLARE 1	08/29/03	01/00/00	Modulating valve # 80-MV-1700 malfunctioned, will not operate.
FLARE 1	11/07/03	11/07/03	Flare #1 will not flare...tries to start but will not ignite...need to investigate due to continuing problems with Co-Gen not taking our gas.
FLARE 2	01/15/03	01/15/03	Loss control power to panel. Please open and check control power in panel.
FLARE 2	08/25/03	10/22/03	Biogas Flare #2 failed to shut off when level was reached after flare off. Alarm indicated was Gas Flare 2 Flame Analyzer M80BI9107.
FLARE 2	11/07/03	01/06/04	Flare does not reset consistently after proving and must be reset manually from DCS.
FLARE 2	12/29/03	12/29/03	Gas Flare #2 indicates Flame ignition failure, will not reset on DCS or on panel manually. Callout on Saturday 12-27-03
FLARE 2	12/29/03	12/29/03	Continuation of Work on -Gas Flare #2 indicates Flame ignition failure, will not reset on DCS or on panel manually.
DIGESTER 1	01/08/03	01/08/03	High pressure in Digester #3. Remove weights from pressure relief Valve. Follow Ops directions.
DIGESTER 1	01/14/03	01/15/03	Check Motorized valve in Condensation Pit "E"
DIGESTER 1	01/14/03	01/15/03	Check Motorized valve in Condensation Pit "E"
DIGESTER 1	01/27/03	01/27/03	Reset valve master station in area 80.
DIGESTER 1	02/14/03	03/26/03	Need tech to repair or replace gas pressure sensor 80-PIT-2601 on Digester #1, located next to the sediment trap on the ground level. Sensor display is slowly vanishing, the left side is getting hard to see and some of the numbers are disappearing.
DIGESTER 1	03/11/03	03/11/03	Hatch on north side is leaking sludge. Assist Ops with cleanup.
DIGESTER 1	03/11/03	03/12/03	Repair gasket leak on hatch
DIGESTER 1	03/12/03	03/13/03	Perform cleanup of Digester roof to prevent pollution of Storm Drain.

Facility	From	To	Notes
DIGESTER 1	03/19/03	03/21/03	Please check the following instruments for common faults: Biogas flow meter 2600, Level transmitter 2101 & 2103, and biogas Pressure meter 2601.
DIGESTER 1	03/21/03	03/21/03	Remove the two (2) dirty flame arrester elements of Digester # 1 and replace with the two (2) flame arrester elements from digester # 2.
DIGESTER 1	04/01/03	04/01/03	Dig #1 heat exchanger modulating valve 80-MV-1127 not operating correctly, continues to become stuck.
DIGESTER 1	06/26/03	08/19/03	Need tech to investigate and repair M80-FE-2600 (Digester #1, Flow/Temp Sensor) located on the gas collection line on top of the digester. Temperature is reading but no flow is indicated, down stream flow indicator shows a flow of about 220 scfm but only about 60 scfm is coming from the Biosolids transmitter. The rest must be coming from Digester #1 but is showing Zero. Note: Need to also switch Asset tags from Digester #1 with the Emergency Biosolids Asset tag. 80-FE-2600 is for Digester #1 which shows 80-FE-2640, 2640 belongs on the Emergency Biosolids tank which has the asset # 80-FE-2600 on it. Tags appear to be riveted to housing of sensor; DCS shows corrected readings for asset, units where probably installed on the wrong tank during construction.
DIGESTER 1	11/18/03	12/24/03	Clean both Flame arrester filters. Clean one Varic at a time. Have operations Isolate each unit separately. Open each unit and hose filters clean and reinstall.
DIGESTER 1	11/19/03	11/21/03	Clean both Flame arrester filters. Clean one Varic at a time. Have operations Isolate each unit separately. Open each unit and hose filters clean and reinstall. Clean dirty units and return to warehouse.
DIGESTER 1	12/20/03	12/20/03	FLAME ARRESTOR NEEDS TO BE CLEANED.
DIGESTER 2	03/24/03	11/06/03	Install new screens in Flame Arrestors for digester 12.
DIGESTER 2	12/05/03	12/31/03	Need tech to repair 80-PT-2621(Digester 2, gas pressure sensor on collection header on top of digester). Sensor is maintaining a 5.73 lnH2O even though the tank is open to the atmosphere with no pressure.

Facility	From	To	Notes
DIGESTER 3	09/09/03	12/31/03	Modify Ferric injection to enter through the hatch on the roof of the digester.
BIOSOLIDS STORAGE TANK	01/14/03	01/15/03	Provide Assistance for electricians to check motorized valve in Condensation Pit "D" near the biosolids tank.
BIOSOLIDS STORAGE TANK	01/14/03	01/15/03	Check motorized valve in Condensation Pit "D" near the Biosolids tank.
BIOSOLIDS STORAGE TANK	12/29/03	12/31/03	install 10 inch Pancakes in overflow piping. Coordinate with Barry Ayers for directions.
EM BIOSOLIDS STORAGE TANK	02/19/03	02/21/03	Unable to close 80-MV-1402 from hand station - sticky close button.
EM BIOSOLIDS STORAGE TANK	07/14/03	07/28/03	Calibrate or repair tank level indicators.

G. Solids Handling Annual Report
(Analyses of dried & disposal biosolids)

This sub-section is an excerpt from the Annual Sludge Disposal Report without most attachments.

2003 Annual Biosolids Beneficial Use & Disposal Report

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 1902 Gatchell Rd., San Diego, CA

The Point Loma Wastewater Treatment Plant (PLWWTP) and the North City Water Reclamation Plant produced and disposed of 128,544 wet tons/36,955 dry tons (33,565 dry metric tons) of digested sludge (biosolids) in 2003.

In 2003 three digesters at PLWWTP were cleaned, producing 17,491 wet tons/6,122 dry tons (based on 35% solids) of material. 15,390 wet tons/5,387 dry tons (based on 35% solids) were hauled to a disposal site (Landfill) while the remaining 2,101 wet tons/735 dry tons (based on 35% solids) were beneficially used in the State of Arizona by land appliers.

All digested sludge produced at the Pt. Loma WWTP were 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 screening, 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.

In 2003, 52,452 wet tons (13,713 dry metric tons) 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 and were disposed of in sanitary landfills. 35,807 wet tons of biosolids were beneficially used as Alternative Daily Cover (ADC) at a sanitary landfill and 40,285 wet tons of biosolids were land applied in the State of Arizona.

Land Applier: Solid Solutions
Address: 12340 Seal Beach Blvd., Suite B-383, Seal Beach, CA 90740
Period: January 1, 2003 - December 31, 2003
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/beneficial use as ADC 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 collects 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 Standards 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 differ.

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), for the months of October, November and December, 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.

Additional analyses, including the rest of the "priority pollutant list"⁴, were performed during 2003 and the reports of these analyses are included in Enclosure 7.

Table 1.A. Landfill location used during 2003 is as follows:

Otay Landfill 1700 Maxwell Road Chula Vista, San Diego County, CA 91911	52,452 wet tons(13,713 dry metric tons) based on 28.8% average solids) disposed of from January to December 2003 at this landfill.
--	--

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.

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

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

2003 Month:	Otay Landfill Biosolids (wet Tons)	Otay Landfill Beneficial Use¹ (wet Tons)	Otay Landfill Total (wet Tons)	Norris Farm Aztec, Yuma County, AZ Beneficial Use¹ (wet Tons)	Cullison Farm Aztec, Yuma Beneficial Use¹ (wet Tons)	Total (wet Tons)	%TS	Total Dry Tons	Total Biosolids (dry metric tons)*
January	7,949.72	141.93	8,091.65	1,375.50		9,467.15	29.61	2802.84	2544.42
February	4,274.64	884.19	5,158.83	3,395.00		8,553.83	28.90	2471.89	2243.98
March	5,622.43	1,250.18	6,872.61	3,586.06		10,458.67	29.93	3130.38	2841.76
April	4,587.61	1,993.35	6,580.96	3,589.99		10,170.95	29.55	3005.82	2728.68
May	5,281.53	1,881.75	7,163.28		4,070.36	11,233.64	30.06	3376.27	3064.98
June	3,969.22	2,506.58	6,475.80		3,524.29	10,000.09	28.70	2870.33	2605.68
July	2,869.45	5,035.21	7,904.66		4,137.80	12,042.46	27.24	3279.76	2977.37
August	2,505.91	4,928.13	7,434.04		4,034.23	11,468.27	28.11	3223.73	2926.50
September	3,131.59	5,224.58	8,356.17	3,698.59		12,054.76	26.75	3224.65	2927.34
October	2,630.55	6,380.80	9,011.35	2,661.03		11,672.38	29.02	3386.86	3074.59
November	4,093.72	2,556.22	6,649.94	3,276.59		9,926.53	29.09	2887.23	2621.03
December	5,535.92	3,024.63	8,560.55	2,935.42		11,495.97	28.83	3314.40	3008.82
Total:	52,452.29	35,807.55	88,259.84	24,518.18	15,766.68	128,544.70		36,974.17	33565.15
Monthly Average:	4,371.02	2,983.96	7,354.99	3,064.77	3,941.67	10,712.06	28.81	3,081.18	2797.10
¹ beneficial use as Alternative Daily Cover. ² beneficial use in Land Application.									

Table 1C. Additional Biosolids (Point Loma Digester Cleanings; mechanically separated)

2003 Month:	South Yuma County Landfill (wet Tons)	Copper Mountai n Landfill (wet Tons)	Otay Landfill (wet Tons)	Field YM2- 144 Yuma County Az (wet Tons)	Field YM2-141 Yuma County Az (wet Tons)	Total Land Application	Total (wet Tons)	Total Dry Tons ¹	Total Metric Tons
January									
February									
March									
April									
May									
June									
July									
August	1,081.02						1,081.02	378.36	343.47
September	3,324.48	171.86	1,424.00				4,920.34	1,722.12	1,563.34
October	4,193.57	1,236.98	1,661.19				7,091.74	2,482.11	2,253.26
November							0.00	0.00	0.00
December	930.67	92.36	1,273.42	391.77	1,709.31	2,101.08	6,498.61	2,274.51	2,064.80
Total:	9,529.74	1,501.20	4,358.61	391.77	1,709.31	2,101.08	19,591.71	6,857.10	6,224.87
Monthly Average:	2,382.44	500.40	1,452.87	391.77	1,709.31	2,101.08	3,918.34	1,371.42	1,244.97

1 Dry tons calculated on basis of 35% total solids, as analyzed by AeroTech Environmental.

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

Month:	*Copper Mountain Landfill Scum (Tons)	Miramar Landfill Grit (Tons)	Miramar Landfill Rags & Screenings (Tons)
January	54.52	174.66	242.66
February	34.76	168.26	255.29
March	53.79	186.49	266.82
April	27.28	136.61	216.21
May	42.09	211.39	250.69
June	27.54	171.40	239.92
July	28.08	183.65	283.09
August	41.09	174.81	305.69
September	12.3	206.54	316.69
October	14.94	222.82	304.36
November	16.62	187.21	362.61
December	78.67	203.8	345.08
Total:	431.68	2,227.64	3,389.11
Average:	35.97	185.64	282.43

Enclosure 1

Solids Production
Table 2A.

Point Loma Annual Monitoring Report
Solids Report - TOTALS
From 01-Jan-2003 to 31-Dec-2003

Month	Pt. Loma Raw sludge		Pt. Loma Digested Sludge		MBC Combined Centrate		MBC Dewatered Sludge		
	Gallons	Tons	Gallons	Tons	Gallons	Tons	Wet Tons	Dry Tons	
01	34,694,163	5,980	29,465,120	2,721	70,961,398	749	9,467	2,803	
02	31,593,495	5,845	31,359,930	2,870	63,718,718	659	8,554	2,472	
03	35,692,317	6,127	36,028,450	3,455	62,339,802	768	10,459	3,130	
04	36,824,944	5,930	37,048,580	3,251	71,608,132	802	10,171	3,006	
05	38,959,058	6,092	38,650,030	3,280	78,382,925	801	11,234	3,376	
06	35,354,186	5,693	35,083,290	3,114	70,569,722	769	10,000	2,870	
07	36,281,597	6,203	37,679,320	3,564	78,681,790	776	12,043	3,279	
08	35,527,663	6,272	36,545,460	3,628	76,145,995	775	11,468	3,223	
09	33,520,437	5,892	33,010,290	3,435	73,215,071	782	12,055	3,225	
10	33,926,448	5,930	35,016,830	3,651	72,730,834	756	11,672	3,387	
11	32,432,975	5,847	29,077,460	3,013	70,696,951	732	9,927	2,887	
12	34,146,952	6,090	34,883,890	3,551	77,997,814	870	11,496	3,314	
avg	34,912,853	5,992	34,487,388	3,294	72,254,096	770	10,712	3,081	
sum	418,954,235	71,901	413,848,650	39,533	867,049,152	9,239	128,545	36,972	

Table 2B.

Solids Report - Daily Averages by Month
From 01-Jan-2003 to 31-Dec-2003

Month	Pt. Loma Raw sludge			Pt. Loma Digested Sludge			MBC Combined Centrate			MBC Dewatered Sludge			
	Gallons	%TS	Tons	Gallons	%TS	Tons	Gallons	%TS	Tons	Wet Tons	%TS	Dry Tons	
01	1,119,167	4.1	191	950,488	2.2	93	2,289,077	0.25	24.4	379	29.6	112.1	
02	1,128,339	4.4	206	1,119,998	2.2	97	2,275,669	0.25	23.6	305	28.9	88.3	
03	1,151,365	4.1	199	1,162,208	2.3	111	2,010,961	0.30	24.3	337	29.9	101.0	
04	1,227,498	3.9	196	1,234,953	2.1	106	2,386,938	0.27	26.3	339	29.6	100.2	
05	1,256,744	3.8	196	1,246,775	2.0	105	2,528,482	0.25	25.9	362	30.1	108.9	
06	1,178,473	3.9	190	1,169,443	2.1	105	2,352,324	0.26	25.5	333	28.7	95.7	
07	1,170,374	4.1	199	1,215,462	2.3	114	2,538,122	0.24	25.0	388	27.2	105.8	
08	1,146,054	4.2	202	1,178,886	2.4	117	2,456,322	0.24	25.1	370	28.1	104.0	
09	1,117,348	4.2	197	1,100,343	2.5	115	2,440,502	0.26	26.2	402	26.8	107.5	
10	1,094,402	4.2	191	1,129,575	2.5	119	2,346,156	0.25	24.2	377	29.0	109.3	
11	1,081,099	4.3	196	969,249	2.5	96	2,356,565	0.25	24.6	331	29.1	96.2	
12	1,101,515	4.3	196	1,125,287	2.4	115	2,516,059	0.27	28.0	371	28.8	106.9	
avg	1,147,698	4.1	197	1,133,555	2.3	108	2,374,765	0.26	25.2	358	28.8	103.0	

** An anomalous %TS value of 15.4 for combined centrate on 11/21/03 was not used. The monthly %TS average value of 0.25 was used to compute the dry tons.

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 concentration can effect the overall accuracies of these reported values.

Enclosure 7.

Results of analyses of dewatered biosolids for 2003.

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 2003.

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

From: 01-JAN-2003 to: 31-DEC-2003

SAMPLED BY: MBC Personnel
ANALYZED BY: BOA,G8C,JRF,IEN,LXP,DXS,JRV,SCV,JZI

Source:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:		31-JAN-2003	28-FEB-2003	31-MAR-2003	30-APR-2003	31-MAY-2003	30-JUN-2003
Sample ID:	MDL Units	P203660	P205996	P209557	P212596	P216228	P219527
=====	=====	=====	=====	=====	=====	=====	=====
pH	PH	7.93	7.89	8.02	7.84	7.94	7.82
Total Solids	WT%	28.8	27.3	29.1	28.9	28.4	27.6
Total Volatile Solids	WT%	49.7	54.2	52.4	52.1	53.1	55.6
Total Kjeldahl Nitrogen	.04 WT%	NA	4.15	NA	NA	4.17	NA
Total Nitrogen	1.1 WT%	4.60	3.68	4.28	4.86	5.11	NA
Sulfides-Total	2170 MG/KG	33300	13700	13300	15100	21000	22800
Sulfides-Reactive	11 MG/KG	16	125	ND	20	12	15
Cyanides,Total	.1 MG/KG	NA	0.94	NA	NA	0.56	NA
Aluminum	11 MG/KG	13300	13500	15000	13000	13200	12700
Antimony	50 MG/KG	ND	ND	ND	ND	ND	ND
Arsenic	.68 MG/KG	5.40	5.39	6.73	5.84	5.06	2.93
Barium	.5 MG/KG	427	480	469	495	500	425
Beryllium	.2 MG/KG	ND	ND	ND	ND	ND	ND
Cadmium	5 MG/KG	ND	ND	ND	ND	ND	ND
Chromium	7 MG/KG	61	66	59	<7	54	53
Cobalt	2.8 MG/KG	<2.8	ND	4.2	38.1	<2.8	3.5
Copper	4 MG/KG	683	654	647	570	594	584
Iron	6 MG/KG	83500	78600	83800	78500	78400	78500
Lead	29 MG/KG	<29	ND	ND	<29	37	ND
Manganese	.8 MG/KG	343	330	328	325	327	299
Mercury	.4 MG/KG	1.37	1.61	1.62	1.63	1.19	1.81
Molybdenum	2.8 MG/KG	15	19	19	17	15	5
Nickel	4 MG/KG	39	28	34	35	34	37
Selenium	.47 MG/KG	4.26	4.81	5.14	5.08	4.80	5.16
Silver	3 MG/KG	27	28	24	26	18	18
Thallium	23 MG/KG	ND	ND	ND	ND	ND	ND
Vanadium	1.5 MG/KG	21	24	33	34	29	41
Zinc	50 MG/KG	805	780	812	779	765	821

Source:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Date:		31-JUL-2003	31-AUG-2003	30-SEP-2003	31-OCT-2003	30-NOV-2003	31-DEC-2003
Sample ID:	MDL Units	P223945	P228261	P232182	P235277	P239233	P242390
=====	=====	=====	=====	=====	=====	=====	=====
pH	PH	7.87	7.73	7.86	7.52	7.89	8.08
Total Solids	WT%	26.4	27.1	25.9	28.6	28.4	27.6
Total Volatile Solids	WT%	54.8	54.5	56.1	54.9	55.2	56.2
Total Kjeldahl Nitrogen	.04 WT%	NA	4.49	NA	4.18	NA	NA
Total Nitrogen	1.1 WT%	4.76	4.54	4.59	4.73	4.72	5.49
Sulfides-Total	2170 MG/KG	29600	17700	17700	20300	16900	12700
Sulfides-Reactive	11 MG/KG	59	37	30	62	ND	29
Cyanides,Total	.1 MG/KG	NA	1.14	NA	0.27	NA	1.79
Aluminum	11 MG/KG	12600	12400	12200	11200	11200	11500
Antimony	50 MG/KG	ND	ND	ND	ND	ND	ND
Arsenic	.68 MG/KG	3.05	2.54	3.23	3.08	3.45	3.23
Barium	.5 MG/KG	511	437	554	454	500	579
Beryllium	.2 MG/KG	ND	ND	ND	ND	ND	ND
Cadmium	5 MG/KG	ND	ND	ND	ND	ND	ND
Chromium	7 MG/KG	50	62	60	55	32	54
Cobalt	2.8 MG/KG	ND	ND	<2.8	ND	ND	ND
Copper	4 MG/KG	604	647	649	532	509	530
Iron	6 MG/KG	80700	84400	88800	89000	81900	75400
Lead	29 MG/KG	<29	ND	35	ND	ND	ND
Manganese	.8 MG/KG	291	298	294	253	275	232
Mercury	.4 MG/KG	1.47	1.18	1.50	1.26	1.13	1.29
Molybdenum	2.8 MG/KG	24	31	30	24	21	16
Nickel	4 MG/KG	41	52	45	35	35	31
Selenium	.47 MG/KG	3.22	4.22	4.38	4.33	4.67	4.76
Silver	3 MG/KG	20	24	22	18	ND	24
Thallium	23 MG/KG	ND	ND	ND	ND	ND	ND
Vanadium	1.5 MG/KG	54	60	68	69	62	65
Zinc	50 MG/KG	839	868	872	789	747	781

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 Biosolids Project
 Total Nitrogen Analysis

From 01-JAN-2003 to 31-DEC-2003

Sampling: LC,MC,VB,MV,NC Analysis: FM, DC

Date:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Sample:	MDL Units	31-JAN-2003	28-FEB-2003	31-MAR-2003	30-APR-2003	31-MAY-2003	31-JUL-2003	31-AUG-2003
		P203660	P205996	P209557	P212596	P216228	P223945	P228261
Total Nitrogen	1.1 WT%	4.6	3.7	4.3	4.9	5.1	4.8	4.5

Date:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Sample:	MDL Units	30-SEP-2003	31-OCT-2003	30-NOV-2003	31-DEC-2003
		P232182	P235277	P239233	P242390
Total Nitrogen	1.1 WT%	4.6	4.7	4.7	5.5

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

POINT LOMA WASTEWATER TREATMENT PLANT
 METRO BIOSOLIDS CENTER
 ANNUAL DEWATERED BIOSOLIDS COMPOSITES
 Radioactivity

From: 01-JAN-2003 to: 31-DEC-2003

SAMPLED BY: MBC Personnel
 ANALYZED BY: Truesdail Labs Inc.

Source	Sample Date	Sample ID	Gross Alpha Radiation	Gross Beta Radiation
MBCDEWCN	28-FEB-2003	P205996	3540±1720	2920±1420
MBCDEWCN	31-MAY-2003	P216228	1370±1635	2480±1310
AVERAGE			2455±1678	2700±1365

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

Units in picocuries/kilogram (pCi/Kg)

MBCDEWCN= Metro Biosolids Center Dewatered Centrifuged Biosolids.

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL BIOSOLIDS - Chlorinated Pesticide Analysis
From 01-JAN-2003 to 31-DEC-2003

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
			31-JAN-2003 P203660	28-FEB-2003 P205996	31-MAR-2003 P209557	30-APR-2003 P212596	31-MAY-2003 P216228
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	45000	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	31500	ND	ND	33000	56000
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	28000	NG/KG	ND	ND	ND	ND	ND
Heptachlor epoxide	28000	NG/KG	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	28000	NG/KG	ND	ND	ND	ND	ND
Gamma (trans) Chlordane	48000	NG/KG	ND	ND	ND	ND	ND
Alpha Chlordene		NG/KG	NA	NA	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA	NA	NA
Oxychlordane	28000	NG/KG	ND	ND	ND	ND	ND
Trans Nonachlor	18000	NG/KG	ND	ND	ND	ND	20500
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	45000	NG/KG	0	0	0	0	0
DDT and derivatives	71000	NG/KG	31500	0	0	33000	56000
Chlordane + related cmpds.	48000	NG/KG	0	0	0	0	0
Polychlorinated biphenyls	580000	NG/KG	0	0	0	0	0
=====							
Chlorinated Hydrocarbons	580000	NG/KG	31500	0	0	33000	76500

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL BIOSOLIDS - Chlorinated Pesticide Analysis
From 01-JAN-2003 To 31-DEC-2003

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
			31-JUL-2003 P223945	31-AUG-2003 P228261	30-SEP-2003 P232182	31-OCT-2003 P235277	30-NOV-2003 P239233
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	45000	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	34000	ND	ND	ND	ND
p,p-DDT	35000	NG/KG	ND	ND	ND	ND	ND
o,p-DDD	28000	NG/KG	ND	ND	ND	ND	ND
o,p-DDE	52000	NG/KG	ND	ND	ND	ND	ND
o,p-DDT	71000	NG/KG	ND	ND	ND	ND	ND
Heptachlor	28000	NG/KG	ND	ND	ND	ND	ND
Heptachlor epoxide	28000	NG/KG	ND	ND	ND	ND	ND
Alpha (cis) Chlordane	28000	NG/KG	89500	130000	84000	<28000	<28000
Gamma (trans) Chlordane	48000	NG/KG	ND	ND	ND	ND	ND
Alpha Chlordene		NG/KG	NA	NA	NA	NA	NA
Gamma Chlordene		NG/KG	NA	NA	NA	NA	NA
Oxychlordane	28000	NG/KG	ND	ND	ND	ND	ND
Trans Nonachlor	18000	NG/KG	34000	57000	30500	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	45000	NG/KG	0	0	0	0	0
DDT and derivatives	71000	NG/KG	34000	0	0	0	0
Chlordane + related cmpds.	48000	NG/KG	89500	130000	84000	0	0
Polychlorinated biphenyls	580000	NG/KG	0	0	0	0	0
=====							
Chlorinated Hydrocarbons	580000	NG/KG	157500	187000	114500	0	0

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL BIOSOLIDS - Chlorinated Pesticide Analysis
From 01-JAN-2003 to 31-DEC-2003

Analyte	MDL	Units	MBCDEWCN	Annual
			31-DEC-2003 P242390	Average
=====	=====	=====	=====	=====
Aldrin	71000	NG/KG	ND	ND
Dieldrin	35000	NG/KG	ND	ND
BHC, Alpha isomer	28000	NG/KG	ND	ND
BHC, Beta isomer	45000	NG/KG	ND	ND
BHC, Gamma isomer	18000	NG/KG	ND	ND
BHC, Delta isomer	28000	NG/KG	ND	ND
p,p-DDD	18000	NG/KG	ND	ND
p,p-DDE	28000	NG/KG	<28000	14045
p,p-DDT	35000	NG/KG	ND	ND
o,p-DDD	28000	NG/KG	ND	ND
o,p-DDE	52000	NG/KG	ND	ND
o,p-DDT	71000	NG/KG	ND	ND
Heptachlor	28000	NG/KG	ND	ND
Heptachlor epoxide	28000	NG/KG	ND	ND
Alpha (cis) Chlordane	28000	NG/KG	ND	27591
Gamma (trans) Chlordane	48000	NG/KG	ND	ND
Alpha Chlordene		NG/KG	NA	NA
Gamma Chlordene		NG/KG	NA	NA
Oxychlordane	28000	NG/KG	ND	ND
Trans Nonachlor	18000	NG/KG	ND	12909
Cis Nonachlor	52000	NG/KG	ND	ND
Alpha Endosulfan	18000	NG/KG	ND	ND
Beta Endosulfan	28000	NG/KG	ND	ND
Endosulfan Sulfate	45000	NG/KG	ND	ND
Endrin aldehyde	52000	NG/KG	ND	ND
Toxaphene	130000	NG/KG	ND	ND
Mirex	18000	NG/KG	ND	ND
Methoxychlor	71000	NG/KG	ND	ND
PCB 1016	260000	NG/KG	ND	ND
PCB 1221	580000	NG/KG	ND	ND
PCB 1232	220000	NG/KG	ND	ND
PCB 1242		NG/KG	ND	ND
PCB 1248	310000	NG/KG	ND	ND
PCB 1254	130000	NG/KG	ND	ND
PCB 1260	86000	NG/KG	ND	ND
PCB 1262		NG/KG	ND	ND
=====	=====	=====	=====	=====
Aldrin + Dieldrin	71000	NG/KG	0	0
Hexachlorocyclohexanes	45000	NG/KG	0	0
DDT and derivatives	71000	NG/KG	0	14045
Chlordane + related cmpds.	48000	NG/KG	0	27591
Polychlorinated biphenyls	580000	NG/KG	0	0
=====	=====	=====	=====	=====
Chlorinated Hydrocarbons	580000	NG/KG	0	54545

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

POINT LOMA WASTEWATER TREATMENT PLANT
 Quarterly Biosolids Project
 Herbicide Analysis
 From 01-JAN-2003 to 31-DEC-2003

Sampling: AM Analysis: CW,TB,KD

Date:		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
Sample:	MDL Units	31-JAN-2003	31-MAR-2003	30-APR-2003	31-JUL-2003
		P203660	P209557	P212596	P223945
2,4-dichlorophenoxyacetic acid	6.84 MG/KG	ND	ND	ND	ND
2,4,5-TP (Silvex)	6.33 MG/KG	ND	ND	ND	ND

Date:		MBCDEWCN	MBCDEWCN	MBCDEWCN
Sample:	MDL Units	30-SEP-2003	30-NOV-2003	31-DEC-2003
		P232182	P239233	P242390
2,4-dichlorophenoxyacetic acid	6.84 MG/KG	ND	ND	ND
2,4,5-TP (Silvex)	6.33 MG/KG	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
From 01-JAN-2003 to 31-DEC-2003
ANNUAL SLUDGE PROJECT

Tributyl Tin (Sludge)

Source		MBCDEWCN
Date		31-OCT-2003
Sample	MDL	P235277
=====	=====	=====
Monobutyl Tin	UG/KG	ND
Tributyl tin	UG/KG	ND

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

Sampling: LC,MC,BGB,RJ,SKB,HHD,NC
 Analysis: CW,TB,KD

Analyte	MDL	Units	PLE	PLR	MBC_COMBCN	MBC_NC_DSL
			07-OCT-2003 P230221	07-OCT-2003 P230226	07-OCT-2003 P230236	07-OCT-2003 P230296
Demeton O	.2	UG/L	ND	ND	ND	ND
Demeton S	.07	UG/L	ND	ND	ND	ND
Diazinon	.07	UG/L	0.1	ND	ND	ND
Guthion	.15	UG/L	ND	ND	ND	ND
Malathion	.07	UG/L	0.1	0.1	ND	ND
Parathion	.06	UG/L	ND	ND	ND	ND
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	.08	UG/L	ND	ND	ND	ND
Monocrotophos		UG/L	NA	NA	NA	NA
Dimethoate	.06	UG/L	ND	ND	ND	ND
Ronnel	.06	UG/L	ND	ND	ND	ND
Trichloronate	.07	UG/L	ND	ND	ND	ND
Merphos	.07	UG/L	ND	ND	ND	ND
Dichlofenthion	.08	UG/L	ND	ND	ND	ND
Tokuthion	.07	UG/L	ND	ND	ND	ND
Stirophos	.08	UG/L	ND	ND	ND	ND
Bolstar	.1	UG/L	ND	ND	ND	ND
Fensulfothion	.15	UG/L	ND	ND	ND	ND
EPN	.07	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	.2	UG/L	NA	NA	NA	NA
Chlorpyrifos	.07	UG/L	ND	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.1	0.1	0.0	0.0
Demeton -O, -S	.2	UG/L	0.0	0.0	0.0	0.0
Total Organophosphorus Pesticides	.2	UG/L	0.2	0.1	0.0	0.0

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

POINT LOMA WASTEWATER TREATMENT PLANT
SEMI-ANNUAL BIOSOLIDS PROJECT

Organophosphorus Pesticides EPA Method 614/622 (with additions)

From 01-JAN-2003 to 31-DEC-2003

Sampling: LC,MC,BGB,RJ,SKB,HHD,NC
Analysis: CW,TB,KD

Analyte	MDL	Units	MBC_NC_RSL	RAW COMP	DIG COMP
			07-OCT-2003 P230294	07-OCT-2003 P230266	07-OCT-2003 P230280
Demeton O	.2	UG/L	ND	ND	ND
Demeton S	.07	UG/L	ND	ND	ND
Diazinon	.07	UG/L	ND	ND	ND
Guthion	.15	UG/L	ND	ND	ND
Malathion	.07	UG/L	ND	ND	ND
Parathion	.06	UG/L	ND	ND	ND
Tetraethylpyrophosphate		UG/L	NA	NA	NA
Dichlorvos	.05	UG/L	ND	ND	ND
Dibrom	.2	UG/L	ND	ND	ND
Ethoprop	.04	UG/L	ND	ND	ND
Phorate	.04	UG/L	ND	ND	ND
Sulfotepp	.04	UG/L	ND	ND	ND
Disulfoton	.08	UG/L	ND	ND	ND
Monocrotophos		UG/L	NA	NA	NA
Dimethoate	.06	UG/L	ND	ND	ND
Ronnel	.06	UG/L	ND	ND	ND
Trichloronate	.07	UG/L	ND	ND	ND
Merphos	.07	UG/L	ND	ND	ND
Dichlofenthion	.08	UG/L	ND	ND	ND
Tokuthion	.07	UG/L	ND	ND	ND
Stirophos	.08	UG/L	ND	ND	ND
Bolstar	.1	UG/L	ND	ND	ND
Fensulfothion	.15	UG/L	ND	ND	ND
EPN	.07	UG/L	ND	ND	ND
Coumaphos	.15	UG/L	ND	ND	ND
Mevinphos, e isomer	.05	UG/L	ND	ND	ND
Mevinphos, z isomer	.2	UG/L	NA	NA	NA
Chlorpyrifos	.07	UG/L	ND	ND	ND
Thiophosphorus Pesticides	.15	UG/L	0.0	0.0	0.0
Demeton -O, -S	.2	UG/L	0.0	0.0	0.0
Total Organophosphorus Pesticides	.2	UG/L	0.0	0.0	0.0

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL BIOSOLIDS - Base/Neutrals
From 01-JAN-2003 to 31-DEC-2003

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN
			28-FEB-2003	31-MAY-2003	31-OCT-2003
			P205996	P216228	P235277
bis(2-chloroethyl) ether	1650	UG/KG	ND	ND	ND
1,3-dichlorobenzene	1650	UG/KG	ND	ND	ND
1,4-dichlorobenzene	1650	UG/KG	ND	615	848
1,2-dichlorobenzene	1650	UG/KG	ND	ND	ND
Bis-(2-chloroisopropyl) ether	1650	UG/KG	ND	ND	ND
N-nitrosodi-n-propylamine	1650	UG/KG	ND	ND	ND
Nitrobenzene	1650	UG/KG	ND	ND	ND
Hexachloroethane	1650	UG/KG	ND	ND	ND
Isophorone	1650	UG/KG	ND	ND	ND
bis(2-chloroethoxy)methane	1650	UG/KG	ND	ND	ND
1,2,4-trichlorobenzene	1650	UG/KG	ND	ND	ND
Naphthalene	1650	UG/KG	ND	ND	1250
Hexachlorobutadiene	1650	UG/KG	ND	ND	ND
Hexachlorocyclopentadiene	1650	UG/KG	ND	ND	ND
2-chloronaphthalene		UG/KG	ND	ND	ND
Acenaphthylene	1650	UG/KG	ND	ND	ND
Dimethyl phthalate	1650	UG/KG	2090	ND	ND
2,6-dinitrotoluene	1650	UG/KG	ND	775	ND
Acenaphthene	1650	UG/KG	ND	ND	ND
2,4-dinitrotoluene	1650	UG/KG	ND	ND	ND
Fluorene	1650	UG/KG	ND	ND	923
4-chlorophenyl phenyl ether	1650	UG/KG	ND	ND	ND
Diethyl phthalate	1650	UG/KG	ND	ND	ND
N-nitrosodiphenylamine	1650	UG/KG	ND	ND	ND
4-bromophenyl phenyl ether	1650	UG/KG	ND	ND	ND
Hexachlorobenzene	1650	UG/KG	ND	ND	ND
Phenanthrene	1650	UG/KG	<1650	ND	2400
Anthracene	1650	UG/KG	ND	ND	ND
Di-n-butyl phthalate	1650	UG/KG	ND	ND	ND
N-nitrosodimethylamine	1650	UG/KG	ND	ND	ND
Fluoranthene	1650	UG/KG	ND	ND	ND
Pyrene	1650	UG/KG	ND	ND	ND
Butyl benzyl phthalate	1650	UG/KG	4430	3730	ND
Chrysene	1650	UG/KG	ND	ND	ND
Benzo[A]anthracene	1650	UG/KG	ND	ND	ND
Bis-(2-ethylhexyl) phthalate	1650	UG/KG	153000	84500	92400
Di-n-octyl phthalate	1650	UG/KG	13200	640	ND
Benzo[K]fluoranthene	1650	UG/KG	ND	ND	ND
3,4-benzo(B)fluoranthene	1650	UG/KG	ND	ND	ND
Benzo[A]pyrene	1650	UG/KG	ND	ND	ND
Indeno(1,2,3-CD)pyrene	1650	UG/KG	ND	ND	ND
Dibenzo(A,H)anthracene	1650	UG/KG	ND	ND	ND
Benzo[G,H,I]perylene	1650	UG/KG	ND	ND	ND
1,2-diphenylhydrazine		UG/KG	ND	ND	ND
=====					
PolyNuc. Aromatic Hydrocarbons	1650	UG/KG	0	0	3323
Dichlorobenzenes	1650	UG/KG	0	615	848
=====					
Base/Neutral Compounds	1650	UG/KG	172720	90260	97821

Additional analytes determined;

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN
			28-FEB-2003	31-MAY-2003	31-OCT-2003
			P205996	P216228	P235277
1-methylnaphthalene		UG/KG	ND	ND	3010
2-methylnaphthalene		UG/KG	1720	ND	4410
2,6-dimethylnaphthalene		UG/KG	3110	1850	5240
2,3,5-trimethylnaphthalene		UG/KG	ND	ND	ND
1-methylphenanthrene		UG/KG	1500	ND	ND
Benzo[e]pyrene		UG/KG	ND	ND	ND
Perylene	1650	UG/KG	ND	ND	ND
Biphenyl		UG/KG	ND	ND	ND
Pyridine		UG/KG	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL BIOSOLIDS
Phenolics

From 01-JAN-2003 to 31-DEC-2003

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	Average
			28-FEB-2003 P205996	31-MAY-2003 P216228	31-AUG-2003 P228261	31-OCT-2003 P235277	
2,4,6-trichlorophenol	1650	UG/KG	ND	ND	ND	ND	ND
2,4-dichlorophenol	1650	UG/KG	ND	ND	ND	ND	ND
2,4-dimethylphenol	1650	UG/KG	ND	ND	ND	ND	ND
2,4-dinitrophenol	1650	UG/KG	ND	ND	ND	ND	ND
2-methyl-4,6-dinitrophenol	800	UG/KG	ND	ND	ND	ND	ND
2-chlorophenol	1650	UG/KG	ND	ND	ND	ND	ND
2-nitrophenol	1650	UG/KG	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	1650	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	1650	UG/KG	80900	28500	138000	148000	98850
Total Non-Chlorinated Phenols	1650	UG/KG	148700	86400	153500	156760	136340
Total Chlorinated Phenols	1650	UG/KG	0	0	0	0	0
Phenols	1650	UG/KG	148700	86400	153500	156760	136340
Phenols average	1650	UG/KG	7355	2591	12545	13455	8987
Additional analytes determined;							
2-methylphenol	1650	UG/KG	ND	ND	ND	ND	ND
3-methylphenol(4-MP is unresolved)	1650	UG/KG	ND	NA	ND	NA	ND
4-methylphenol(3-MP is unresolved)	1650	UG/KG	67800	57900	15500	8760	37490
2,4,5-trichlorophenol	800	UG/KG	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL BIOSOLIDS - Purgeables

From 01-JAN-2003 to 31-DEC-2003

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
			28-FEB-2003 P205996	31-MAR-2003 P209557	30-APR-2003 P212596	31-MAY-2003 P216228	31-JUL-2003 P223945	31-AUG-2003 P228261
Chloromethane	25.8	UG/KG	ND	ND	ND	ND	ND	ND
Vinyl chloride	26.2	UG/KG	ND	ND	ND	ND	ND	ND
Bromomethane	29.2	UG/KG	ND	ND	ND	ND	ND	ND
Chloroethane	61	UG/KG	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	28	UG/KG	ND	ND	ND	ND	ND	ND
1,1-dichloroethene	25.1	UG/KG	ND	ND	ND	ND	ND	ND
Carbon disulfide	34	UG/KG	102	162	154	105	189	136
Acetone	185	UG/KG	9910	5980	*	13500	13000	7350
Methylene chloride	62.5	UG/KG	ND	ND	ND	242	ND	ND
trans-1,2-dichloroethene	24.9	UG/KG	ND	ND	ND	ND	ND	ND
1,1-dichloroethane	25.7	UG/KG	ND	ND	ND	ND	ND	ND
2-butanone		UG/KG	2070	2930	*	4870	5910	3210
Chloroform	25.6	UG/KG	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	27.4	UG/KG	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	15.6	UG/KG	ND	ND	ND	ND	ND	ND
Benzene	26.5	UG/KG	ND	ND	ND	ND	ND	ND
1,2-dichloroethane	20.5	UG/KG	ND	ND	ND	ND	ND	ND
Trichloroethene	25.3	UG/KG	ND	ND	ND	ND	ND	ND
1,2-dichloropropane	25.5	UG/KG	ND	ND	ND	ND	ND	ND
Bromodichloromethane	17	UG/KG	ND	ND	ND	ND	ND	ND
2-chloroethylvinyl ether	53.6	UG/KG	ND	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	21.5	UG/KG	ND	ND	ND	ND	ND	ND
Toluene	48	UG/KG	ND	ND	ND	ND	ND	ND
trans-1,3-dichloropropene	17	UG/KG	ND	ND	ND	ND	ND	ND
1,1,2-trichloroethane	35.1	UG/KG	ND	ND	ND	ND	ND	ND
Tetrachloroethene	21.5	UG/KG	ND	ND	ND	ND	ND	ND
Dibromochloromethane	24.2	UG/KG	ND	ND	ND	ND	ND	ND
Chlorobenzene	31.1	UG/KG	ND	ND	ND	ND	ND	ND
Ethylbenzene	90.5	UG/KG	ND	ND	ND	ND	ND	ND
Bromoform	26.1	UG/KG	ND	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	64	UG/KG	ND	ND	ND	ND	ND	ND
1,3-dichlorobenzene	16.1	UG/KG	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene		UG/KG	436	942	710	567	884	513
1,2-dichlorobenzene	28.7	UG/KG	ND	ND	ND	ND	ND	ND
Purgeable Compounds	275	UG/KG	12082	9072	154	18717	19099	10696

Additional analytes determined;

Acrolein	70.9	UG/KG	ND	ND	ND	ND	ND	ND
Methyl Iodide	19	UG/KG	102	190	78	127	ND	ND
Allyl chloride	25	UG/KG	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	34	UG/KG	ND	ND	ND	ND	ND	ND
Acrylonitrile	275	UG/KG	ND	ND	ND	ND	ND	ND
Chloroprene	17	UG/KG	ND	ND	ND	ND	ND	ND
Dibromofluoromethane		UG/KG	803	754	696	842	870	904
Methyl methacrylate	36	UG/KG	ND	ND	ND	ND	ND	ND
2-nitropropane		UG/KG	ND	ND	ND	ND	ND	ND
4-methyl-2-pentanone	24	UG/KG	ND	ND	ND	ND	ND	ND
1,2-dibromoethane	17	UG/KG	ND	ND	ND	ND	ND	ND
meta,para xylenes	35	UG/KG	74	167	108	72	115	79
ortho-xylene	23	UG/KG	43	99	62	45	64	44
Isopropylbenzene	17	UG/KG	ND	ND	ND	ND	ND	ND
Styrene	19	UG/KG	ND	35	<19	<19	29	ND
Benzyl chloride	38	UG/KG	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	17	UG/KG	ND	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
ANNUAL BIOSOLIDS - Purgeables

From 01-JAN-2003 to 31-DEC-2003

Analyte	MDL	Units	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	Average
			30-SEP-2003 P232182	31-OCT-2003 P235277	30-NOV-2003 P239233	31-DEC-2003 P242390	
Chloromethane	25.8	UG/KG	ND	ND	ND	ND	ND
Vinyl chloride	26.2	UG/KG	ND	ND	ND	ND	ND
Bromomethane	29.2	UG/KG	ND	ND	ND	ND	ND
Chloroethane	61	UG/KG	ND	ND	ND	ND	ND
Trichlorofluoromethane	28	UG/KG	ND	ND	ND	ND	ND
1,1-dichloroethene	25.1	UG/KG	ND	ND	ND	ND	ND
Carbon disulfide	34	UG/KG	205	101	102	124	138
Acetone	185	UG/KG	17500	7460	7030	12200	10437
Methylene chloride	62.5	UG/KG	95	ND	ND	ND	34
trans-1,2-dichloroethene	24.9	UG/KG	ND	ND	ND	ND	ND
1,1-dichloroethane	25.7	UG/KG	ND	ND	ND	ND	ND
2-butanone		UG/KG	7650	5870	5600	9950	5340
Chloroform	25.6	UG/KG	ND	ND	ND	ND	ND
1,1,1-trichloroethane	27.4	UG/KG	ND	ND	ND	ND	ND
Carbon tetrachloride	15.6	UG/KG	ND	ND	<16	ND	0
Benzene	26.5	UG/KG	ND	ND	ND	ND	ND
1,2-dichloroethane	20.5	UG/KG	ND	ND	ND	ND	ND
Trichloroethene	25.3	UG/KG	ND	ND	ND	ND	ND
1,2-dichloropropane	25.5	UG/KG	ND	ND	ND	ND	ND
Bromodichloromethane	17	UG/KG	ND	ND	ND	ND	ND
2-chloroethylvinyl ether	53.6	UG/KG	ND	ND	ND	ND	ND
cis-1,3-dichloropropene	21.5	UG/KG	ND	ND	ND	ND	ND
Toluene	48	UG/KG	ND	<48	ND	ND	0
trans-1,3-dichloropropene	17	UG/KG	ND	ND	ND	ND	ND
1,1,2-trichloroethane	35.1	UG/KG	ND	ND	ND	ND	ND
Tetrachloroethene	21.5	UG/KG	ND	ND	ND	ND	ND
Dibromochloromethane	24.2	UG/KG	ND	ND	ND	ND	ND
Chlorobenzene	31.1	UG/KG	ND	ND	ND	ND	ND
Ethylbenzene	90.5	UG/KG	ND	ND	ND	ND	ND
Bromoform	26.1	UG/KG	ND	ND	ND	ND	ND
1,1,2,2-tetrachloroethane	64	UG/KG	ND	ND	ND	ND	ND
1,3-dichlorobenzene	16.1	UG/KG	ND	ND	ND	ND	ND
1,4-dichlorobenzene		UG/KG	499	359	422	400	573
1,2-dichlorobenzene	28.7	UG/KG	ND	ND	ND	ND	ND
Purgeable Compounds	275	UG/KG	25450	13431	12732	22274	14371

Additional analytes determined;

Acrolein	70.9	UG/KG	ND	ND	ND	ND	ND
Methyl Iodide	19	UG/KG	ND	ND	ND	ND	50
Allyl chloride	25	UG/KG	ND	ND	ND	ND	ND
Methyl tert-butyl ether	34	UG/KG	ND	ND	ND	ND	ND
Acrylonitrile	275	UG/KG	ND	ND	ND	ND	ND
Chloroprene	17	UG/KG	ND	ND	ND	ND	ND
Dibromofluoromethane		UG/KG	931	854	901	913	847
Methyl methacrylate	36	UG/KG	ND	ND	ND	ND	ND
2-nitropropane		UG/KG	ND	ND	ND	ND	ND
4-methyl-2-pentanone	24	UG/KG	ND	ND	ND	ND	ND
1,2-dibromoethane	17	UG/KG	ND	ND	ND	ND	ND
meta,para xylenes	35	UG/KG	87	93	79	63	94
ortho-xylene	23	UG/KG	47	52	43	33	53
Isopropylbenzene	17	UG/KG	ND	<17	<17	ND	0
Styrene	19	UG/KG	ND	ND	ND	ND	6
Benzyl chloride	38	UG/KG	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	17	UG/KG	ND	ND	ND	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT
 QUARTERLY BIOSOLIDS - Dioxins analysis

From 01-JAN-2003 to 31-DEC-2003

Analyte	MDL Units	MBCDEWCN	MBCDEWCN
		28-FEB-2003 P205996	31-OCT-2003 P235277
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	ND	ND
1,2,3,7,8,9-hexa CDD	NG/KG	ND	ND
1,2,3,4,6,7,8-hepta CDD	NG/KG	31	130
octa CDD	NG/KG	300	1600
2,3,7,8-tetra CDF	NG/KG	ND	4
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	ND	E150
1,2,3,4,7,8,9-hepta CDF	NG/KG	ND	ND
octa CDF	NG/KG	79	1000

Above are permit required CDD/CDF isomers.

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.

2003 POINT LOMA WASTEWATER TREATMENT PLANT ANNUAL REPORT

CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TEST (TITLE 22)

METRO BIOSOLIDS CENTER (MBC)

		WET WEIGHT Concentration (calculated)											
ANALYTE	TTLc Wet wt mg/Kg	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
		JAN 2003	FEB 2003	MAR 2003	APR 2003	MAY 2003	JUN 2003	JUL 2003	AUG 2003	SEP 2003	OCT 2003	NOV 2003	DEC 2003
		P203660	P205996	P209557	P212596	P216228	P219527	P223945	P228261	P232182	P235277	P239233	P242390
ANTIMONY	500	< 13.60	< 13.85	< 14.60	< 14.60	< 14.30	< 13.30	< 13.85	< 13.50	< 13.65	< 14.00	< 14.70	< 14.65
ARSENIC	500	1.5	1.5	2.0	1.7	1.5	55.6	0.8	0.7	0.9	1.0	0.9	0.9
BARIUM	10000	116	133	137	145	143	113	142	118	151	127	147	170
BERYLLIUM	75	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CADMIUM	100	< 1.4	< 1.4	< 1.5	< 1.5	< 1.4	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.5
CHROMIUM(VI)	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM(total)	2500	17	18	17	< 2	15	14	28	17	16	15	9	16
COBALT	8000	< 0.8	< 0.8	1.2	11.1	< 0.8	0.9	< 0.8	< 0.8	1.1	< 0.8	< 0.8	< 0.8
COPPER	2500	186	181	189	166	170	155	167	175	177	149	150	155
LEAD	1000	< 8	< 8	< 8	< 8	11	< 8	< 8	< 8	10	< 8	< 9	< 8
MERCURY	20	0.38	0.44	0.47	0.47	0.34	0.48	0.42	0.32	0.41	0.36	0.32	0.35
MOLYBDENUM	3500	4.1	5.3	5.5	5.0	4.3	1.4	6.7	8.5	8.2	6.6	6.1	4.8
NICKEL	2000	11	8	10	10	10	10	11	14	12	10	10	9
SELENIUM	100	1.2	1.3	1.5	1.5	1.4	1.4	1.7	1.1	1.2	1.2	1.4	1.4
SILVER	500	7	8	7	8	5	5	6	6	6	5	< 1	7
THALLIUM	700	< 6.26	< 6.37	< 6.72	< 6.72	< 6.58	< 6.12	< 6.37	< 6.21	< 6.28	< 6.44	< 6.76	< 6.74
VANADIUM	2400	6	7	10	10	8	11	15	16	19	19	18	19
ZINC	5000	219	216	237	227	219	218	247	234	238	221	220	229
FLUORIDE	18000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SULFIDES-REACTIVE	NA	4	35	< 3	6	< 3	< 3	8	< 10	8	17	< 3	8
SULFIDES-TOTAL	NA	9058	3795	3884	4409	6006	6065	8199	4779	4832	5684	4969	3721
TOTAL SOLIDS (%)		27.2	27.7	29.2	29.2	28.6	26.6	27.7	27.0	27.3	28.0	29.4	29.3

		DRY WEIGHT Concentration											
ANALYTE	TTLc Wet wt mg/Kg	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
		JAN 2003	FEB 2003	MAR 2003	APR 2003	MAY 2003	JUN 2003	JUL 2003	AUG 2003	SEP 2003	OCT 2003	NOV 2003	DEC 2003
		P203660	P205996	P209557	P212596	P216228	P219527	P223945	P228261	P232182	P235277	P239233	P242390
ANTIMONY	500	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
ARSENIC	500	5.4	5.4	6.7	5.8	5.1	209.0	3.0	2.5	3.2	3.1	3.4	3.2
BARIUM	10000	427	480	469	495	500	425	511	437	554	455	500	579
BERYLLIUM	75	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
CADMIUM	100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
CHROMIUM(VI)	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CHROMIUM(total)	2500	61	66	59	< 7	54	53	100	62	60	55	32	54
COBALT	8000	< 2.8	< 2.8	4.2	38.1	< 2.8	3.5	< 2.8	< 2.8	4.2	< 2.8	< 2.8	< 2.8
COPPER	2500	683	654	647	570	594	584	604	647	649	532	509	530
LEAD	1000	< 29	< 29	< 29	< 29	37	< 29	< 29	< 29	35	< 29	< 29	< 29
MERCURY	20	1.4	1.6	1.6	1.6	1.2	1.8	1.5	1.2	1.5	1.3	1.1	1.2
MOLYBDENUM	3500	15	19	19	17	15	5.3	24.1	31.4	30.1	23.7	20.7	16.4
NICKEL	2000	39	28	34	35	34	37	41	51	45	35	35	31
SELENIUM	100	4.3	4.8	5.1	5.1	4.8	5.2	6.2	4.2	4.4	4.3	4.7	4.8
SILVER	500	26.9	27.6	23.5	25.7	18	17.5	20	23.9	21.9	18.3	< 3	24
THALLIUM	700	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23	< 23
VANADIUM	2400	21.2	23.5	33.3	33.8	29.1	40.5	54.3	59.5	68.2	69.4	62.4	65.4
ZINC	5000	805	780	812	779	765	821	890	868	871	789	747	781
FLUORIDE	18000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SULFIDES-REACTIVE	NA	16	125.0	< 11	20	< 11.0	< 11	29	< 37	30	62	< 11	29
SULFIDES-TOTAL	NA	33300	13700	13300	15100	21000	22800	29600	17700	17700	20300	16900	12700

TTLc = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

NA = Not Analyzed, NS = Not Sampled

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

ORGANICS

ANALYTE	TTLc Wet wt mg/Kg	WET WEIGHT Concentration (calculated)											
		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN
		JAN 2003	FEB 2003	MAR 2003	APR 2003	MAY 2003	JUN 2003	JUL 2003	AUG 2003	SEP 2003	OCT 2003	NOV 2003	DEC 2003
	P203660	P205996	P209557	P212596	P216228	P219527	P223945	P228261	P232182	P235277	P239233	P242390	
ALDRIN	1.4	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd
CHLORDANE	2.5	nd	nd	nd	nd	nd	NA	0.025	0.035	0.022	nd	0.009	nd
DDT,DDE,DDD	1.0	0.0520	nd	nd	0.0096	nd	NA	nd	nd	nd	nd	nd	nd
2,4-DCPAA	100	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd
DIELDRIN	8.0	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd
ENDRIN	0.20	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd
HEPTACHLOR	4.7	nd	nd	nd	nd	nd	NA	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	NA	nd	nd	nd	nd	nd	nd
METHOXYCHLOR	100	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd
MIREX	21	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd
PENTACHLOROPHENOL	17	NA	nd	NA	nd	nd	NA	NA	NA	NA	NA	NA	NA
PCBs (TOTAL)	50	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd
TOXAPHENE	5	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd
TRICHLOROETHENE	2040	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd
2,4,5-TCPPA	10	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd
TOTAL SOLIDS (%)		27.2	27.7	29.2	29.2	28.6	26.6	27.7	27.0	27.3	28.0	29.4	29.3
pH	>6-<9	7.65	7.78	7.83	7.61	8.31	8.00	7.94	7.76	7.76	7.83	7.71	7.83

ANALYTE	TTLc Wet wt mg/Kg	DRY WEIGHT Concentration												MDL mg/Kg
		MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	MBCDEWCN	
		JAN 2003	FEB 2003	MAR 2003	APR 2003	MAY 2003	JUN 2003	JUL 2003	AUG 2003	SEP 2003	OCT 2003	NOV 2003	DEC 2003	
	P203660	P205996	P209557	P212596	P216228	P219527	P223945	P228261	P232182	P235277	P239233	P242390		
ALDRIN	1.4	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	0.00002
CHLORDANE	2.5	nd	nd	nd	nd	nd	NA	0.090	0.130	0.080	nd	0.029	nd	0.000014
DDT,DDE,DDD	1.0	0.032	nd	nd	0.033	nd	NA	nd	nd	nd	nd	nd	nd	0.00004
2,4-DCPAA	100	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	3.4
DIELDRIN	8.0	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	0.00002
ENDRIN	0.20	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	0.00003
HEPTACHLOR	4.7	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	0.000003
KEPONE	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
LINDANE	4	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	0.00001
METHOXYCHLOR	100	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	NA
MIREX	21	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	0.00002
PENTACHLOROPHENOL	17	NA	nd	NA	nd	nd	NA	NA	NA	NA	NA	NA	NA	0.8
PCBs (TOTAL)	50	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	NA
TOXAPHENE	5	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	0.00024
TRICHLOROETHENE	2040	NA	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	0.0253
2,4,5-TCPPA	10	nd	nd	nd	nd	nd	NA	nd	nd	nd	nd	nd	nd	4.4

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 2003 P203660	FEB 2003 P205996	MAR 2003 P209557	APR 2003 P212596	MAY 2003 P216228	JUN 2003 P219527	JUL 2003 P223945	AUG 2003 P228261	SEP 2003 P232182	OCT 2003 P235277	NOV 2003 P239233	DEC 2003 P242390
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 2003 P203660	FEB 2003 P205996	MAR 2003 P209557	APR 2003 P212596	MAY 2003 P216228	JUN 2003 P219527	JUL 2003 P223945	AUG 2003 P228261	SEP 2003 P232182	OCT 2003 P235277	NOV 2003 P239233	DEC 2003 P242390
ALDRIN	0.14	*	*	*	*	*	*	*	*	*	*	*	*
CHLORDANE	0.25	*	*	*	*	*	*	*	*	*	*	*	*
DDT,DDE,DDD	0.1	*	*	*	*	*	*	*	*	*	*	*	*
2,4-DCPAA	10	*	*	*	*	*	*	*	*	*	*	*	*
DIELDRIN	0.8	*	*	*	*	*	*	*	*	*	*	*	*
ENDRIN	0.02	*	*	*	*	*	*	*	*	*	*	*	*
HEPTACHLOR	0.47	*	*	*	*	*	*	*	*	*	*	*	*
KEPONE	2.1	*	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
PCBs (TOTAL)	5	*	*	*	*	*	*	*	*	*	*	*	*
TOXAPHENE	0.5	*	*	*	*	*	*	*	*	*	*	*	*
TRICHLOROETHENE	204	NA	*	*	*	*	*	*	*	*	*	*	*
2,4,5-TCPPA	1	*	*	*	*	*	*	*	*	*	*	*	*

TTL = 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.

