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## A. Flows

### Point Loma Wastewater Treatment Plant Annual Monitoring Report Flow Report - 2010

#### WASTEWATER FLOWS Daily Average Flows - Millions of Gallons

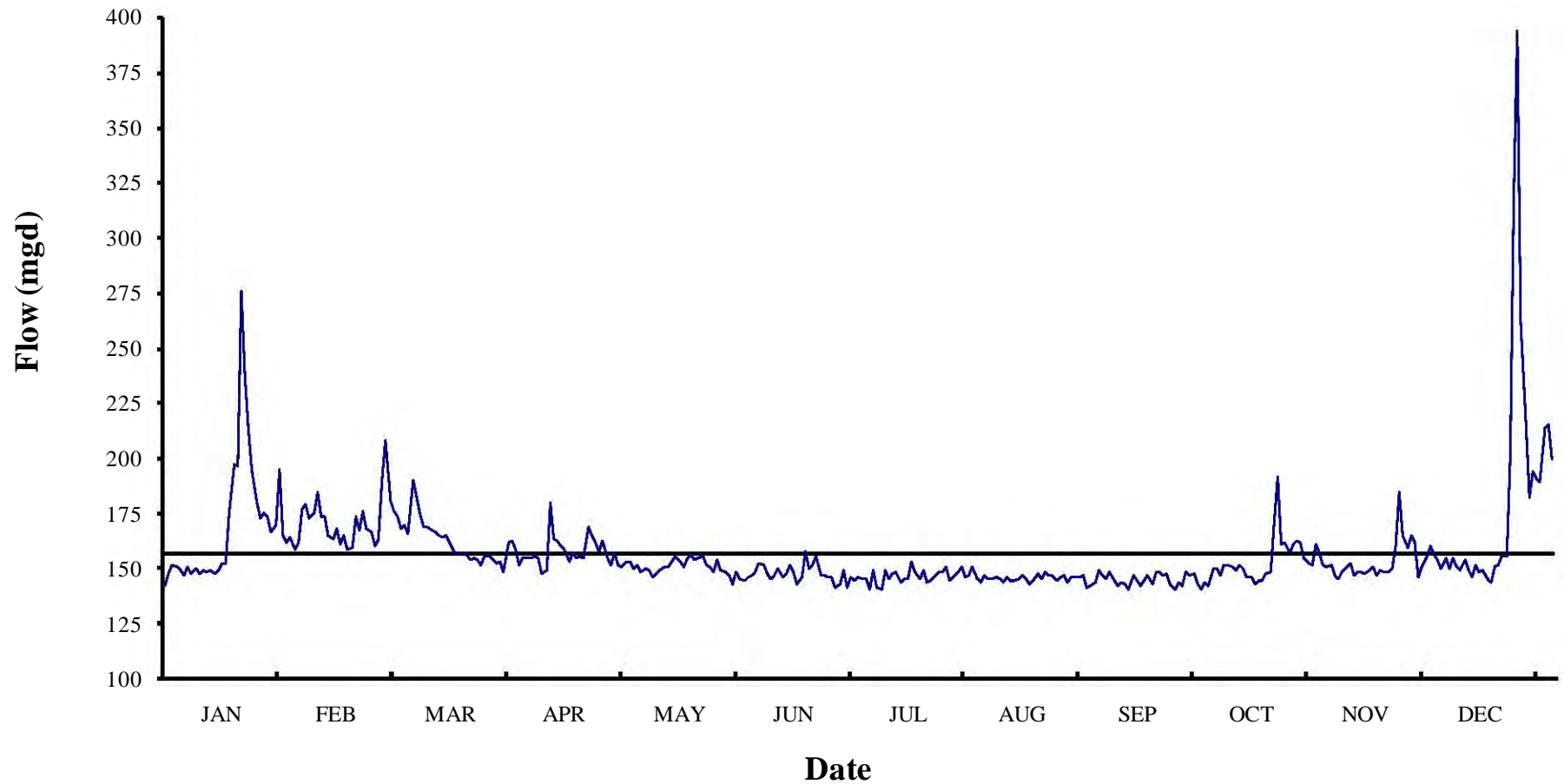
Mon	Pt. L Gould	Pt. L ADS	PS#2 Flow	PS#2 Pumps	PS#1 Flows
01	169.1	167.6	166.4	168.0	58.7
02	169.6	168.1	164.3	165.6	60.7
03	163.0	162.2	160.7	160.7	57.6
04	157.5	157.1	158.5	158.4	57.4
05	150.5	149.9	153.2	157.4	57.2
06	147.1	147.5	150.2	152.7	56.2
07	145.9	147.5	148.9	150.0	52.3
08	145.2	147.2	147.7	157.1	49.3
09	144.4	139.6	145.7	152.4	53.1
10	153.2	116.8	155.0	160.3	55.1
11	152.8	124.2	152.8	157.5	56.2
12	174.5	178.5	178.9	178.3	64.9
avg	156.1	150.5	156.9	159.9	56.6
sum	1,872.8	1,806.1	1,882.4	1,918.6	678.7

#### WASTEWATER FLOWS Monthly Total Flows - Millions of Gallons

Mon	Pt. L Gould	Pt. L ADS	PS#2 Flow	PS#2 Pumps	PS#1 Flows
01	5,243	5,194	5,160	5,209	1,819
02	4,748	4,706	4,601	4,638	1,698
03	5,052	5,029	4,981	4,983	1,787
04	4,724	4,712	4,756	4,751	1,722
05	4,515	4,647	4,749	4,879	1,772
06	4,413	4,425	4,507	4,582	1,685
07	4,524	4,572	4,616	4,650	1,622
08	4,500	4,563	4,580	4,869	1,530
09	4,332	4,188	4,370	4,573	1,593
10	4,749	3,622	4,806	4,970	1,709
11	4,584	3,726	4,583	4,726	1,686
12	5,236	5,534	5,546	5,527	2,011
avg	4,718	4,576	4,771	4,863	1,719
sum	56,620	54,918	57,255	58,357	20,634

NOTES: The flows taken at the Pt. Loma WWTP are from the Parshall flumes at the headworks. Water depth in the flume is measured by 2 meters. The Gould meters measure water pressure. The ADS meters are sonar devices that measure the distance of the water level below the meter. The flows through Pump Station II(PS#2) are from venturi meters. PS#2 flow is the flow from the totalizer to which all of the venturi meters feed. PS#2 Pumps is the sum of the readings on the individual venturi meters which are connected to each of the pumps at the pump station. PS#1 is the flow from the venturi meters at Pump Station 1.

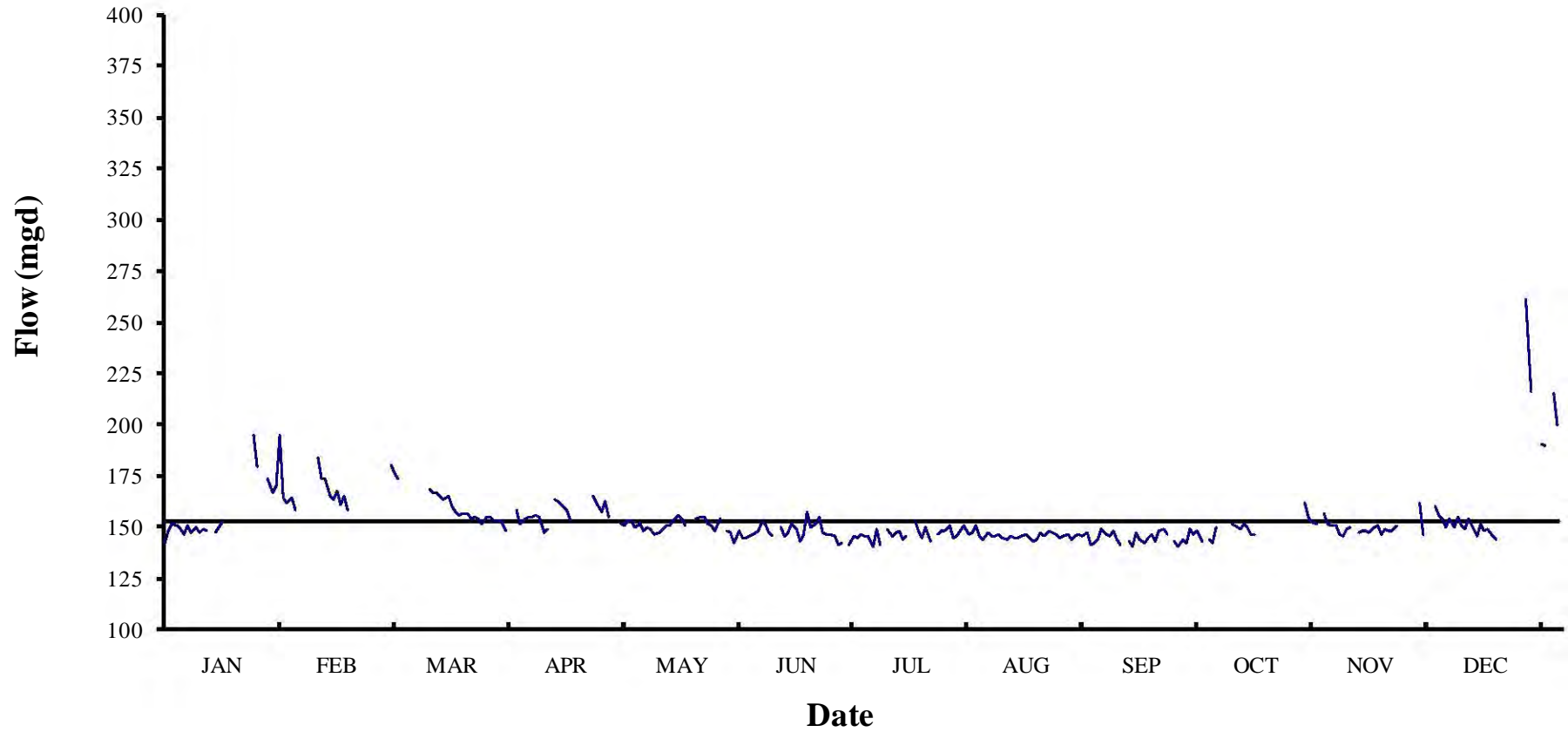
## Point Loma Wastewater Treatment Plant 2010 Daily Flows (mgd)



## Point Loma Wastewater Treatment Plant 2010 Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	141.4	164.3	180.1	161.4	150.4	144.7	144.2	150.5	141.6	143.5	151.2	153.7	
2	147.5	161.3	175.7	162.3	152.6	144.3	145.7	145.1	143.4	142.0	150.6	149.1	
3	151.0	163.8	173.3	158.3	153.0	145.3	144.8	143.4	148.9	149.6	150.7	154.1	
4	150.4	157.8	167.7	150.7	149.4	146.2	144.8	146.7	146.4	149.3	146.4	149.2	
5	149.0	161.1	169.1	154.1	151.3	148.1	140.1	145.2	144.9	146.6	144.9	154.6	
6	146.1	176.6	165.5	154.3	147.8	151.9	148.6	144.9	147.6	151.5	148.2	150.3	
7	150.2	179.0	189.6	154.6	149.3	151.0	140.7	146.0	143.7	151.4	149.5	148.9	
8	146.8	172.4	181.8	155.3	148.8	146.8	140.1	144.4	141.3	150.2	151.8	153.7	
9	149.6	174.5	174.2	154.2	145.9	144.8	148.8	143.3	143.0	148.8	146.6	148.6	
10	147.0	183.9	168.1	146.9	146.8	146.5	145.0	145.5	142.8	151.4	148.0	145.3	
11	148.8	173.5	168.1	148.8	149.0	149.4	147.3	144.2	140.3	149.8	147.9	151.1	
12	147.7	173.4	166.9	179.4	150.1	145.5	148.1	144.0	146.6	145.7	146.8	147.7	
13	149.0	164.4	166.1	163.1	150.3	146.9	143.6	145.1	143.8	145.7	149.0	148.9	
14	147.2	162.7	164.9	162.3	152.9	150.9	145.1	146.2	142.0	142.2	150.5	145.2	
15	149.1	167.7	163.5	159.9	155.0	148.2	144.5	144.7	143.9	144.4	146.3	143.6	
16	152.2	160.4	164.5	158.3	153.7	142.5	152.5	142.6	146.2	144.1	149.0	150.4	
17	151.6	164.8	159.8	153.0	150.7	145.8	147.8	143.8	142.6	147.2	147.6	151.3	
18	174.8	157.8	156.9	156.8	154.4	157.1	144.7	147.1	147.8	147.6	147.9	155.3	
19	196.5	159.3	155.7	154.2	156.1	149.3	149.1	145.0	148.3	171.1	149.9	155.4	
20	195.9	173.0	156.4	155.0	153.6	150.9	142.9	147.8	146.3	191.2	160.0	201.4	
21	275.4	167.0	156.5	154.6	154.4	155.0	143.7	146.7	147.3	160.6	184.2	318.3	
22	237.7	175.6	153.5	168.8	154.7	146.5	145.6	146.4	142.6	161.1	164.9	393.9	
23	213.1	167.9	154.6	164.5	151.1	146.1	148.1	144.0	140.4	156.7	159.3	261.2	
24	194.8	166.0	153.6	161.3	150.2	145.9	148.1	145.3	143.5	160.3	164.6	216.0	
25	179.5	160.1	150.9	157.4	147.8	145.3	149.9	146.1	142.0	162.1	161.4	182.0	
26	172.1	163.3	154.7	162.4	153.4	140.8	144.0	143.1	148.3	161.3	145.9	193.7	
27	174.9	188.6	154.8	154.5	148.5	142.2	145.3	145.3	146.3	154.3	150.7	190.3	
28	173.1	207.9	153.2	150.9	147.7	148.4	148.0	145.8	147.3	152.2	154.8	189.2	
29	166.4		152.2	156.3	146.6	141.1	150.5	145.2	142.6	150.8	159.6	213.7	
30	169.5		152.6	151.0	142.1	145.2	145.8	146.7	140.4	160.2	155.6	214.9	Annual
31	194.8		147.6		147.9		146.7	140.7		156.5		199.4	Summary
Average	169.1	169.6	163.0	157.5	150.5	147.1	145.9	145.2	144.4	153.2	152.8	181.6	156.7
Minimum	141.4	157.8	147.6	146.9	142.1	140.8	140.1	140.7	140.3	142.0	144.9	143.6	140
Maximum	275.4	207.9	189.6	179.4	156.1	157.1	152.5	150.5	148.9	191.2	184.2	393.9	394
Total	5243.0	4748.0	5051.8	4724.5	4665.3	4412.7	4523.9	4500.5	4332.1	4749.4	4583.5	5630.2	57165

## Point Loma Wastewater Treatment Plant 2010 Dry Weather Flows (mgd)



## Point Loma Wastewater Treatment Plant 2010 Dry Weather Flows (mgd)

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	141.4	164.3	180.1		150.4	144.7	144.2	150.5	141.6	143.5	151.2	153.7	
2	147.5	161.3	175.7		152.6	144.3	145.7	145.1	143.4	142.0	150.6	149.1	
3	151.0	163.8	173.3	158.3	153.0	145.3	144.8	143.4	148.9	149.6	150.7	154.1	
4	150.4	157.8		150.7	149.4	146.2	144.8	146.7	146.4		146.4	149.2	
5	149.0		169.1	154.1	151.3	148.1	140.1	145.2	144.9		144.9	154.6	
6	146.1			154.3	147.8	151.9	148.6	144.9	147.6		148.2	150.3	
7	150.2			154.6	149.3	151.0	140.7	146.0	143.7	151.4	149.5	148.9	
8	146.8	172.4		155.3	148.8	146.8		144.4	141.3	150.2		153.7	
9	149.6		174.2	154.2	145.9	144.8	148.8	143.3		148.8	146.6	148.6	
10	147.0	183.9		146.9	146.8		145.0	145.5	142.8	151.4	148.0	145.3	
11	148.8	173.5	168.1	148.8	149.0	149.4	147.3	144.2	140.3	149.8	147.9	151.1	
12	147.7	173.4	166.9		150.1	145.5	148.1	144.0	146.6	145.7	146.8	147.7	
13		164.4	166.1	163.1	150.3	146.9	143.6	145.1	143.8	145.7	149.0	148.9	
14	147.2	162.7	164.9	162.3	152.9	150.9	145.1	146.2	142.0		150.5	145.2	
15	149.1	167.7	163.5	159.9	155.0	148.2		144.7	143.9		146.3	143.6	
16	152.2	160.4	164.5	158.3	153.7	142.5	152.5	142.6	146.2		149.0		
17		164.8	159.8	153.0	150.7	145.8	147.8	143.8	142.6	147.2	147.6		
18		157.8	156.9			157.1	144.7	147.1	147.8		147.9		
19			155.7	154.2		149.3	149.1	145.0	148.3		149.9		
20			156.4		153.6	150.9	142.9	147.8	146.3				
21			156.5		154.4	155.0		146.7					
22			153.5		154.7	146.5	145.6	146.4	142.6		164.9		
23		167.9	154.6	164.5	151.1	146.1	148.1	144.0	140.4			261.2	
24	194.8		153.6	161.3	150.2	145.9	148.1	145.3	143.5			216.0	
25	179.5		150.9	157.4	147.8	145.3	149.9	146.1	142.0				
26		163.3	154.7	162.4	153.4	140.8	144.0	143.1	148.3	161.3	145.9		
27			154.8	154.5		142.2	145.3	145.3	146.3	154.3		190.3	
28	173.1		153.2		147.7		148.0	145.8	147.3	152.2		189.2	
29	166.4		152.2		146.6	141.1	150.5	145.2	142.6	150.8	159.6		
30	169.5		152.6	151.0	142.1	145.2	145.8	146.7			155.6	214.9	Annual
31	194.8		147.6		147.9		146.7	140.7		156.5		199.4	Summary
Average	157.2	166.2	160.7	156.1	150.2	147.1	146.3	145.2	144.5	150.0	149.9	167.4	153.4
Minimum	141.4	157.8	147.6	146.9	142.1	140.8	140.1	140.7	140.3	142.0	144.9	143.6	140.1
Maximum	194.8	183.9	180.1	164.5	155.0	157.1	152.5	150.5	148.9	161.3	164.9	261.2	261.2
Total	3301.8	2659.4	4179.2	3279.1	4206.3	4117.8	4095.6	4500.5	3901.4	2400.6	3296.9	3514.8	43453

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**Total Annual Precipitation=16.26**

**Maximum=2.01**

**Trace=0**

First Quarter		Second Quarter		Third Quarter		Fourth Quarter	
Date	Rain	Date	Rain	Date	Rain	Date	Rain
13-Jan-10	T	1-Apr-10	0.56	8-Jul-10	T	4-Oct-10	0.01
17-Jan-10	0.01	5-Apr-10	0.11	15-Jul-10	0.01	5-Oct-10	0.01
18-Jan-10	1.06	12-Apr-10	0.68	21-Jul-10	0.01	6-Oct-10	0.74
19-Jan-10	0.53	18-Apr-10	0.02	9-Sep-10	T	14-Oct-10	T
20-Jan-10	0.64	20-Apr-10	0.01	21-Sep-10	T	15-Oct-10	T
21-Jan-10	0.74	21-Apr-10	0.27	30-Sep-10	0.03	16-Oct-10	T
22-Jan-10	0.22	22-Apr-10	0.09			18-Oct-10	0.04
23-Jan-10	0.1	28-Apr-10	0.04			19-Oct-10	0.91
26-Jan-10	0.06	29-Apr-10	T			20-Oct-10	0.1
27-Jan-10	0.02	18-May-10	T			21-Oct-10	T
5-Feb-10	0.12	19-May-10	T			22-Oct-10	T
6-Feb-10	0.55	27-May-10	0.01			23-Oct-10	0.02
7-Feb-10	T	10-Jun-10	0.02			24-Oct-10	0.05
9-Feb-10	0.33	28-Jun-10	T			25-Oct-10	0.15
19-Feb-10	0.05					30-Oct-10	0.15
20-Feb-10	0.34					8-Nov-10	0.07
21-Feb-10	0.04					20-Nov-10	0.53
22-Feb-10	0.04					21-Nov-10	0.19
24-Feb-10	0.01					23-Nov-10	0.01
25-Feb-10	T					24-Nov-10	0.03
27-Feb-10	0.73					27-Nov-10	0.05
28-Feb-10	0.07					28-Nov-10	T
4-Mar-10	T					16-Dec-10	0.01
6-Mar-10	0.26					17-Dec-10	0.03
7-Mar-10	0.42					18-Dec-10	0.01
8-Mar-10	T					19-Dec-10	0.13
10-Mar-10	T					20-Dec-10	0.31
						21-Dec-10	2.01
						22-Dec-10	1.83
						25-Dec-10	0.12
						26-Dec-10	0.09
						29-Dec-10	0.46
<b>TOTALS</b>	<b>6.34</b>		<b>1.81</b>		<b>0.05</b>		<b>8.06</b>

## C. Solids Production

### Point Loma Annual Monitoring Report

Solids Report - TOTALS  
From 01-JAN-2010 To 31-DEC-2010

Month	Pt. Loma	Dry Tons	Pt.Loma	Dry Tons	MBC	Dry Tons	MBC	Dry Tons
	Raw sludge Gallons		Digested Sludge Gallons		Combined Centrate Gallons		Dewatered Sludge Wet Tons	
01	34,778,670	5,874	34,778,670	3,374	71,362,097	987	8,990	2,587
02	30,710,753	5,227	30,710,753	2,925	68,465,952	901	8,806	2,555
04	32,815,127	5,810	32,815,127	3,427	74,588,751	1,012	10,741	3,026
03	32,932,664	5,905	32,932,664	3,139	74,413,864	965	10,087	2,915
05	34,691,408	5,726	34,691,393	3,530	78,211,711	1,145	11,615	3,259
06	34,661,864	5,504	34,661,864	3,449	73,607,329	1,296	11,037	3,082
07	36,180,495	5,519	36,180,495	3,556	77,574,364	1,269	10,736	3,001
08	37,377,190	5,798	37,477,190	3,559	77,322,887	1,209	10,915	3,087
09	35,726,658	5,824	35,726,774	3,348	68,151,597	1,100	10,377	2,868
10	37,577,299	5,967	37,577,226	3,574	74,265,531	1,120	10,000	2,761
11	36,417,924	5,642	45,259,838	3,856	70,950,735	851	9,463	2,696
12	36,154,340	5,866	36,154,350	3,158	73,625,708	955	9,411	2,705
avg	35,002,033	5,722	35,747,195	3,408	73,545,044	1,068	10,181	2,879
sum	420,024,392	68,663	428,966,344	40,895	882,540,526	12,811	122,177	34,542

Solids Report - Daily Averages by Month  
From 01-JAN-2010 To 31-DEC-2010

Year Month	Pt. Loma		Dry Tons	Pt.Loma		Dry Tons	MBC		MBC			Dry Tons
	Raw sludge Gallons	%TS		Digested Sludge Gallons	%TS		Combined Centrate Gallons	%TS	Dry Tons	Dewatered Sludge Wet Tons	%TS	
10-01	1,121,893	4.1	189	1,121,893	2.3	109	2,302,003	0.33	31.6	290	28.8	83.4
10-02	1,096,813	4.1	185	1,096,813	2.3	104	2,445,213	0.32	31.6	314	29.0	91.3
10-03	1,062,344	4.3	189	1,062,344	2.3	100	2,400,447	0.31	31.1	325	28.9	94.0
10-04	1,093,838	4.2	196	1,093,838	2.5	113	2,486,292	0.33	33.8	358	28.2	100.9
10-05	1,119,078	4.0	188	1,119,077	2.4	113	2,522,958	0.35	37.0	375	28.1	105.1
10-06	1,155,395	3.8	190	1,155,395	2.4	113	2,453,578	0.42	43.3	368	27.9	102.7
10-07	1,167,113	3.7	178	1,167,113	2.4	115	2,502,399	0.39	40.9	346	28.0	96.8
10-08	1,205,716	3.7	188	1,208,942	2.3	115	2,494,287	0.38	39.0	352	28.3	99.6
10-09	1,190,889	3.9	194	1,190,892	2.2	111	2,271,720	0.39	36.6	346	27.6	95.6
10-10	1,212,171	3.8	192	1,212,169	2.3	115	2,395,662	0.36	35.9	323	27.6	89.1
10-11	1,213,931	3.7	187	1,508,661	2.0	137	2,365,025	0.29	28.5	315	28.5	89.9
10-12	1,166,269	3.9	188	1,166,269	2.1	102	2,375,023	0.31	30.6	304	28.7	87.3
avg	1,150,454	3.9	189	1,175,284	2.3	112	2,417,884	0.35	35.0	335	28.3	94.6

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

The mechanical condition of the cake pumps and the variability of sludge concentrations can affect the overall accuracies of these reported values.

## D. Chemical Usage

### Point Loma Annual Chemical Usage Report

#### Monthly Totals - 2010

Month	Polymer Pt.Loma Gallons	ACTIVE Polymer Pt.Loma Lbs.	Ferric Chloride PS #2 Gallons	Ferrous Chloride PS #2 Gallons	Ferric Chloride Pt.Loma Gallons	Sodium hydroxide PS #1 Gallons	Sodium hydroxide PS #2 Gallons	Sodium hydroxide Pt.Loma Gallons	NaOCl PS #1 Gallons	NaOCl PS #2 Gallons	NaOCl Pt.Loma Gallons	Salt PS #1 Lbs.	Salt PS #2 Lbs.	Salt Pt.Loma Lbs.
01	145,708	6,134	0		89,520	188	44	3,402	809	1,693	284,611	1,050	800	15,500
02	132,518	5,577	0		83,043	154	140	4,529	575	933	267,555	502	900	14,000
03	141,107	5,939	0		87,082	215	59	2,777	629	1,838	289,502	800	400	15,500
04	132,071	5,562	0		80,591	238	152	3,136	1,292	1,330	289,073	500	550	15,000
05	130,095	5,476	0		78,037	175	86	5,349	769	1,863	290,680	750	1,250	15,500
06	123,344	5,189	0		75,414	219	248	3,663	593	1,343	295,929	800	1,000	15,000
07	125,777	5,294	0		79,093	377	226	4,631	179	3,943	305,918	800	800	15,500
08	126,008	5,306	0		79,910	484	76	4,689	421	1,897	309,969	750	500	15,500
09	122,102	5,139	0		79,924	318	174	4,904	283	1,971	301,475	500	303	15,000
10	133,002	5,600	0		89,254	332	166	3,397	1,386	2,707	302,927	900	350	15,500
11	128,382	5,404	0		84,551	261	104	3,132	1,555	2,091	280,169	1,000	950	15,000
12	155,864	6,561	0		98,714	245	96	3,880	722	1,895	285,048	1,100	350	15,500
avg	132,998	5,598	0		83,761	267	131	3,957	768	1,959	291,905	788	679	15,208
sum	1,595,976	67,181	0		1,005,133	3,206	1,571	47,489	9,213	23,504	3,502,856	9,452	8,153	182,500

## E. Gas Production

### Point Loma Wastewater Treatment Plant

#### Gas Report

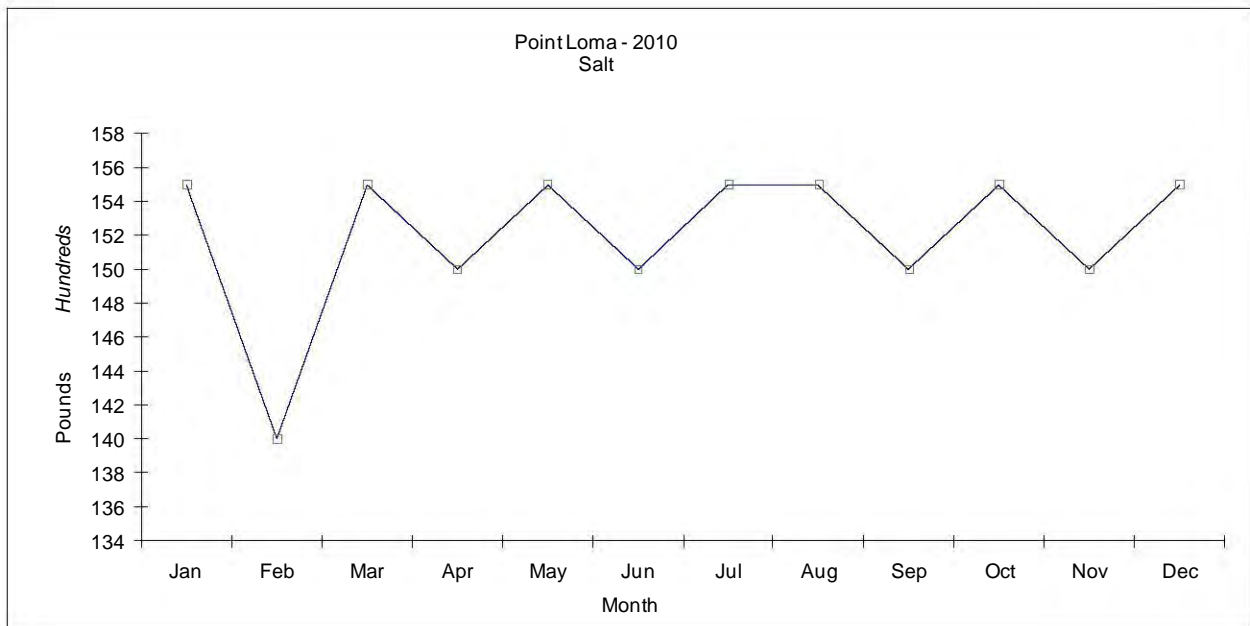
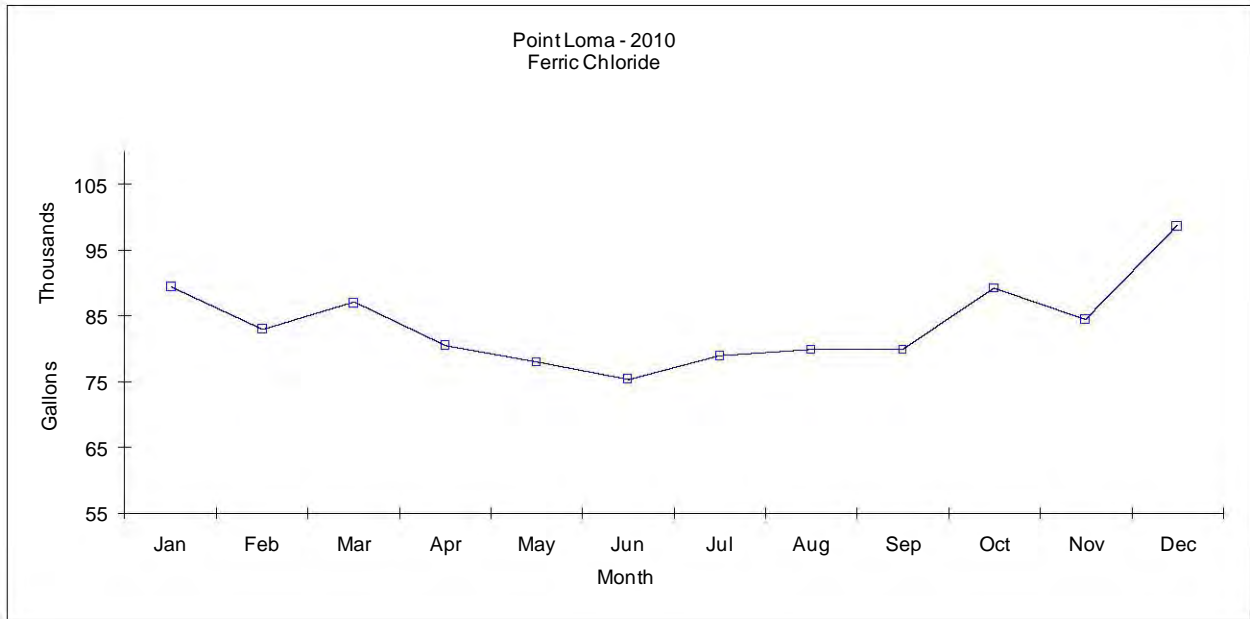
#### Daily Monthly Averages

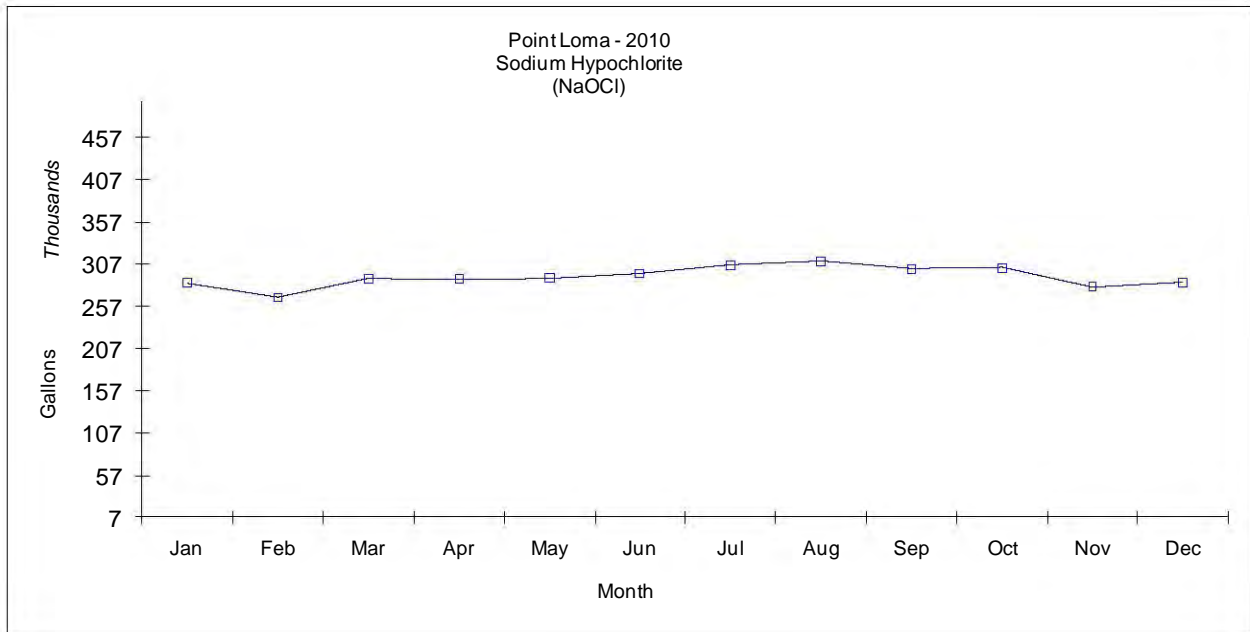
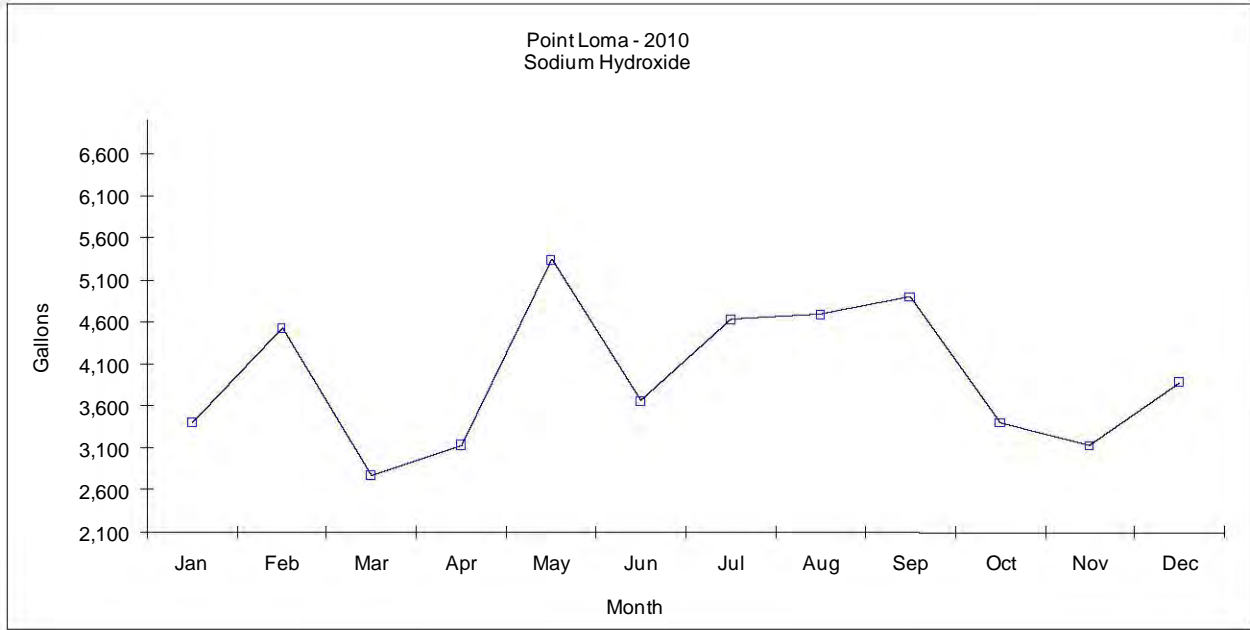
Month	GAS PRODUCTION (x1000 Cu. Ft.)					GAS CONSUMPTION (x1000 Cu. Ft.)							
	N-1-P	N-2-P	C-1-P	C-2-P	S-1-P	S-2-P	Dig 7	Dig 8	Total	Boilers	Burners	GUF	Total
01	403.7	408.2	389.8	363.3	412.0	291.5	80.3	479.1	2,268.5	106	1,485	1,670	3,261
02	427.0	385.7	377.2	357.5	390.0	277.0	77.4	463.8	2,214.4	83	1,265	1,839	3,187
03	442.4	383.5	386.5	360.0	395.3	279.6	82.5	454.5	2,247.3	83	1,313	1,844	3,240
04	515.9	440.9	79.9	396.6	450.6	328.0	87.0	399.7	2,211.8	79	1,259	1,844	3,181
05	615.1	522.6	.0	473.3	526.7	408.7	110.1	.3	2,546.5	84	1,196	1,846	3,126
06	553.4	524.4	.0	469.4	531.1	452.0	107.0	.0	2,530.4	86	1,134	1,823	3,044
07	549.0	530.8	.0	477.3	533.8	450.7	105.2	.0	2,541.6	60	1,137	1,834	3,031
08	514.4	550.4	.0	472.0	527.8	453.2	105.0	.0	2,517.7	35	1,108	1,817	2,961
09	493.2	548.0	.0	468.8	524.6	462.7	105.3	.0	2,497.4	45	1,308	1,658	3,011
10	506.8	543.7	.0	469.4	522.8	457.6	105.9	.0	2,500.3	195	1,832	1,026	3,053
11	494.1	531.1	51.0	454.6	516.4	466.9	105.8	.0	2,514.0	117	1,441	1,564	3,122
12	449.0	468.7	338.8	407.3	464.1	466.3	93.2	.0	2,594.1	105	1,242	1,918	3,265
avg	497.0	486.5	135.3	430.8	482.9	399.5	97.1	149.8	2,432.0	90	1,310	1,724	3,123

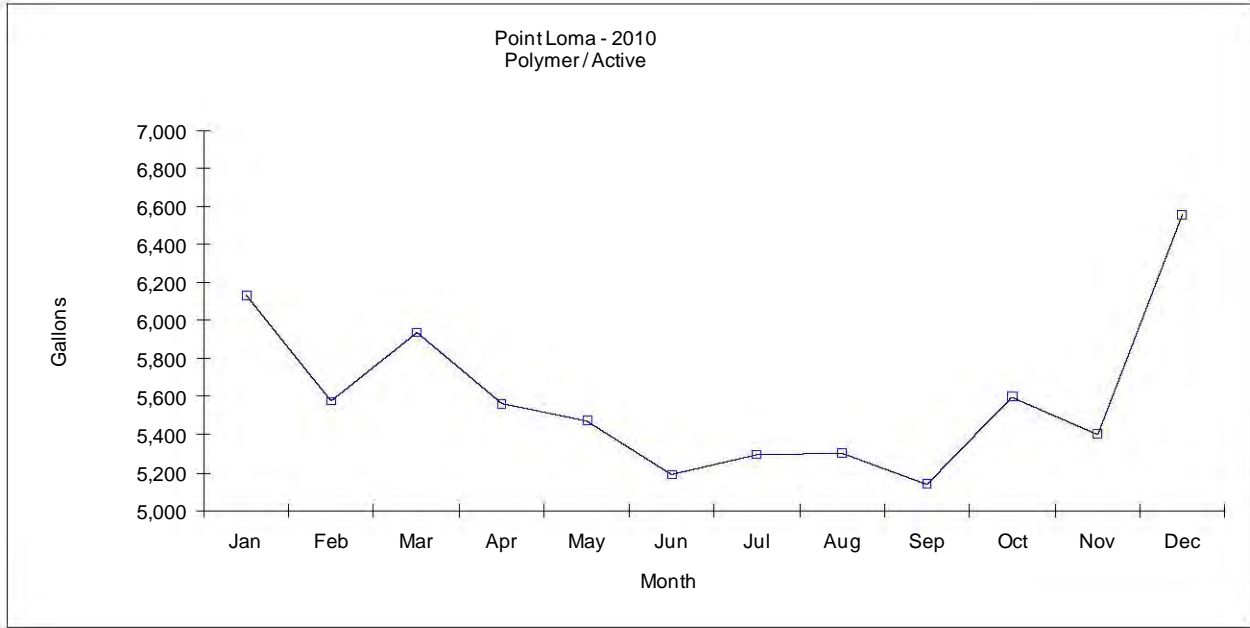
#### Monthly Totals

Month	GAS PRODUCTION (x1000 Cu. Ft.)					GAS CONSUMPTION (x1000 Cu. Ft.)							
	N-1-P	N-2-P	C-1-P	C-2-P	S-1-P	S-2-P	Dig 7	Dig 8	Total	Boilers	Burners	GUF	Total
01	12,514.0	12,654.0	12,084.0	11,261.0	12,772.0	9,037.0	2,489.0	14,852.0	70,322.0	3,272	46,042	51,772	101,086
02	11,955.0	10,799.0	10,562.0	10,011.0	10,920.0	7,757.0	2,166.0	12,986.0	62,004.0	2,329	35,407	51,504	89,240
03	13,715.0	11,887.0	11,983.0	11,159.0	12,255.0	8,667.0	2,557.0	14,089.0	69,666.0	2,571	40,692	57,172	100,435
04	15,476.0	13,226.0	2,396.0	11,899.0	13,517.0	9,840.0	2,609.0	11,990.0	66,354.0	2,361	37,758	55,323	95,442
05	19,069.0	16,200.0	.0	14,672.0	16,329.0	12,671.0	3,413.0	10.0	78,941.0	2,602	37,084	57,211	96,897
06	16,603.0	15,732.0	.0	14,083.0	15,932.0	13,561.0	3,210.0	.0	75,911.0	2,592	34,021	54,701	91,314
07	17,018.0	16,455.0	.0	14,797.0	16,549.0	13,972.0	3,261.0	.0	78,791.0	1,868	35,239	56,859	93,966
08	15,945.0	17,063.0	.0	14,631.0	16,361.0	14,049.0	3,256.0	.0	78,049.0	1,081	34,362	56,341	91,784
09	14,796.0	16,440.0	.0	14,065.0	15,739.0	13,882.0	3,159.0	.0	74,922.0	1,343	39,228	49,753	90,324
10	15,710.0	16,856.0	.0	14,552.0	16,207.0	14,185.0	3,283.0	.0	77,510.0	6,054	56,788	31,793	94,635
11	14,822.0	15,932.0	1,531.0	13,637.0	15,491.0	14,006.0	3,173.0	.0	75,419.0	3,514	43,238	46,913	93,665
12	13,918.0	14,530.0	10,502.0	12,625.0	14,388.0	14,454.0	2,890.0	.0	80,417.0	3,269	38,509	59,443	101,221
avg	15,128.4	14,814.5	4,088.2	13,116.0	14,705.0	12,173.4	2,955.5	4,493.9	74,025.5	2,738	39,864	52,399	95,001
sum	181,541.0	177,774.0	49,058.0	157,392.0	176,460.0	146,081.0	35,466.0	53,927.0	888,306.0	32,856	478,368	628,785	1,140,009

## F. Graphs of Chemical Usage











FACILITIES THAT WERE OUT OF SERVICE IN 2010

GRIT CHAMBERS

N1	9/13-9/27
N2	9/22-11/17
C1	8/23-8/27
C2	7/7-7/14; 8/28-9/9
S1	1/1-12/31
S2	1/1-12/31

CHANNELS

EAST	1/1; 2/17; 6/30; 9/21; 11/9;
WEST	1/7; 4/16; 8/20; 10/12; 12/8

BASINS

1	1/1-12/31
2	1/13-4/22
3	1/1-12/31
4	1/3-1/12; 4/29-6/4; 10/28-12/21
5	
6	
7	5/24-7/18
8	6/24-8/6
9	9/10-12/31
10	4/21-5/24; 6/3-6/24; 7/2-10/27
11	1/1-4/28
12	7/18-9/9

NEOC	4/7-4/8
SEOC	
INFLUENT SCREEN #1	
INFLUENT SCREEN #2	3/29-4/19;
INFLUENT SCREEN #3	
INFLUENT SCREEN #4	1/28-2/5; 5/5-5/6; 12/14-12/15
INFLUENT SCREEN #5	9/7-9/9; 12/27-12/29

DIGESTERS

N1P	
N2P	
C1P	4/8-11/23
C2P	
S1P	
S2P	
Dig 7	
Dig 8	5/5-12/31

FACILITIES THAT WERE OUT OF SERVICE IN 2010

SHUTDOWNS

DATE	FROM	TO	REASON
2/18/2010	0200	0530	Plant influent channel inspection
2/26/2010	0200	0600	Plant maintenance on Polymer System
4/27/2010	0200	0500	Plant maintenance Power Center 6
4/28/2010	0200	0530	Pump Station 2 valve replacement
6/25/2010	0200	0500	Pump Station 2 travelling screen PM
9/22/2010	0200	0600	Plant maintenance
10/1/2010	0200	0600	Pump Station 1&2 traveling screen maintenance
10/14/2010	0200	0600	Plant maintenance Power Center 6
11/9/2010	0200	0600	Pump Station 2 traveling screen repair
12/10/2010	0200	0600	Pump Station 1&2 traveling screen repair

## H. Grit and Screenings

The following are reports of the analyses of grit samples taken from the Pt. Loma WWTP headworks (grit removal chambers) in 2010. Reports include Title 22 analyses and Total Solids. Title 22 sampling and analysis of PLR grit occurs on a Semi-Annual basis. Samples from the grit bins are taken daily for 7 consecutive days and composited together to form the Semi-Annual sample. Although everywhere else in this report PLR refers to Point Loma WWTP raw Influent sewage, in this section, it refers to the grit removed from the grit chambers at the headworks building at the influent end of the plant.

**Point Loma Wastewater Treatment Plant  
Total Solids - Grit and Screenings 2010 (% WT)**

Grit Monthly Averages		Headworks Screenings Monthly		Sludge Screenings Monthly Averages	
JAN	57.9	JAN	42.1	JAN	36.0
FEB	53.6	FEB	42.7	FEB	34.3
MAR	51.1	MAR	39.3	MAR	35.7
APR	54.1	APR	41.2	APR	35.9
MAY	53.3	MAY	41.4	MAY	35.9
JUN	53.3	JUN	42.7	JUN	36.9
JUL	48.7	JUL	40.0	JUL	35.7
AUG	64.0	AUG	46.6	AUG	36.6
SEP	59.9	SEP	42.1	SEP	36.4
OCT	71.9	OCT	49.4	OCT	36.8
NOV	62.2	NOV	50.5	NOV	36.8
DEC	55.4	DEC	47.6	DEC	35.7
<b>AVG</b>	<b>57.1</b>	<b>AVG</b>	<b>43.8</b>	<b>AVG</b>	<b>36.1</b>

## Point Loma Wastewater Treatment Plant

**2010 Grit Total Solid (% WT)**

	Average	Minimum	Maximum
	% WT	% WT	% WT
JAN	57.9	42.1	86.6
FEB	53.6	45.5	68.5
MAR	51.1	40.8	67.0
APR	54.1	41.8	65.3
MAY	53.3	44.0	66.0
JUN	53.3	42.3	68.0
JUL	48.7	40.7	65.8
AUG	64.0	46.2	85.0
SEP	59.9	45.8	91.1
OCT	71.9	52.4	86.5
NOV	62.2	43.7	88.1
DEC	55.4	40.1	81.9

**2010 Headworks Screenings Total Solids (% WT)**

	Average	Minimum	Maximum
	% WT	% WT	% WT
JAN	42.1	35.6	50.0
FEB	42.7	34.9	48.3
MAR	39.3	19.7	52.8
APR	41.2	19.7	52.8
MAY	41.4	33.5	61.0
JUN	42.7	37.9	52.3
JUL	40.0	34.9	49.2
AUG	46.6	38.0	58.8
SEP	42.1	36.6	52.0
OCT	49.4	38.9	58.8
NOV	50.5	35.5	58.4
DEC	47.6	43.0	53.3

**2010 Sludge Screenings Total Solids (% WT)**

	Average	Minimum	Maximum
	% WT	% WT	% WT
JAN	36.0	32.7	41.7
FEB	34.3	24.4	39.2
MAR	35.7	30.5	37.7
APR	35.9	32.9	39.0
MAY	35.9	33.6	41.1
JUN	36.9	31.5	39.2
JUL	35.7	31.9	38.1
AUG	36.6	33.0	54.2
SEP	36.4	32.8	42.1
OCT	36.8	33.7	45.5
NOV	36.8	32.6	47.9
DEC	35.7	31.6	47.0

POINT LOMA WASTEWATER TREATMENT PLANT  
CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)  
Metro Biosolids Center Dewatered Sludge  
From: 01-JUN-2010 to 30-JUN-2010

Source: MBCDEWCN  
Sample ID: P523955  
Sample Date: 30-JUN-10

Constituent	MDL	Units	Total	Total	TTL	W.E.T.	STLC	40 CFR	503	CA Health &
			Dry Wt.	Wet Wt.	Wet Wt.	Wet Wt.	Wet Wt.	Limits **	Limits ***	Safety code
			mg/Kg	mg/Kg	mg/Kg	mg/L	mg/L	mg/Kg	mg/Kg	mg/Kg
Antimony	.5	MG/KG	2.54	.702	500	*	15.00			
Arsenic	.68	MG/KG	3.63	1	500	*	5.00	41		
Barium	.05	MG/KG	228.5	63.2	10000	*	100.00			
Beryllium	.02	MG/KG	.3	.083	75	*	.75			
Cadmium	.1	MG/KG	1.46	.402	100	*	1.00	39		
Chromium (VI)			NA	NA	500	NA	5.00			
Chromium	.3	MG/KG	89.1	24.62	2500	*	560.00	1,200		
Cobalt	.2	MG/KG	4.29	1.185	8000	*	80.00			
Copper	.4	MG/KG	639	176.7	2500	*	25.00	1,500	2,500	
Lead	2	MG/KG	17	4.7	1000	*	5.00	300	350	
Mercury	.4	MG/KG	1.49	.413	20	*	.20	17		
Molybdenum	.1	MG/KG	24.5	6.77	3500	*	350.00			
Nickel	.3	MG/KG	90.8	25.106	2000	*	20.00	420	2,000	
Selenium	.47	MG/KG	6.06	1.674	100	*	1.00	100		
Silver	.07	MG/KG	6.79	1.876	500	*	5.00			
Thallium	1	MG/KG	.55	.152	700	*	7.00			
Vanadium	.2	MG/KG	23.8	6.567	2400	*	24.00			
Zinc	.5	MG/KG	926	256	5000	*	250.00	2,800		
Fluoride			NA	NA	18000	NA	180.00			
Sulfides-Reactive	11	MG/KG	ND	ND						
Sulfides-Total	2170	MG/KG	12200	3373						
Total Solids		WT%	27.7							
Total Volatile Solids		WT%	60.2							
pH	.08	PH	7.51		>2 - <12					
Aldrin	.071	MG/KG	ND	ND	1.4	*	.14			
Chlordanes	.048	MG/KG	.135	.0373	2.5	*	.25			
DDT, DDE, DDD	.071	MG/KG	ND	ND	1.0	*	.10			
2,4-D			NA	NA	100	NA	10.00			
Dieldrin	.035	MG/KG	ND	ND	8.0	*	.80			
Endrin	.035	MG/KG	ND	ND	0.2	*	.02			
Heptachlor	.016	MG/KG	ND	ND	4.7	*	.47			
Kepone			NA	NA	21	NA	2.10			
Lindane	0	MG/KG	ND	ND	4.0	*	.40			
Methoxychlor	.1	MG/KG	ND	ND	100	*	10.00			
Mirex	.018	MG/KG	ND	ND	21	*	2.10			
Pentachlorophenol			NA	NA	17	NA	1.70			
PCBs (Arochlors)	.58	MG/KG	ND	ND	50	*	5.00			
Toxaphene	.13	MG/KG	ND	ND	5	*	.50			
Trichloroethene	.003	MG/KG	ND	ND	2040	*	204.00			
2,4,5-TP			NA	NA	10	NA	1.00			

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

- TTL = Total Threshold Limit Concentration.
- STLC = Soluble Threshold Limit Concentration.
- W.E.T. = Waste Extraction Technique.
- \* = The total wet concentration is less than 10 times the STLC. Therefore by definition, this substance is present in concentrations that are less than the limits for hazardous wastes.
- \*\* = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
- \*\*\* = The California State Health and Safety Code 25157.8 established lower a limit for Lead.
- NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
- MDL = Method Detection Limit (are in mg/Kg per dry weight; except for pH and Total and Volatile Solids)
- MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

POINT LOMA WASTEWATER TREATMENT PLANT  
 CALIFORNIA HAZARDOUS WASTE IDENTIFICATION TESTS (Title 22)  
 Metro Biosolids Center Dewatered Sludge  
 From: 01-NOV-2010 to 30-NOV-2010

Source: MBCDEWCN  
 Sample ID: P543490  
 Sample Date: 30-NOV-10

Constituent	MDL	Units	Total	Total	TTL	W.E.T.	STLC	40 CFR 503	CA Health & Safety code
			Dry Wt. mg/Kg	Wet Wt. mg/Kg	Wet Wt. mg/Kg	Wet Wt. mg/L	Wet Wt. mg/L	Limits ** mg/Kg	Limits *** mg/Kg
Antimony	.5	MG/KG	3.26	.929	500	*	15.00		
Arsenic	.68	MG/KG	3.35	.95	500	*	5.00	41	
Barium	.05	MG/KG	326	92.9	10000	*	100.00		
Beryllium	.02	MG/KG	.25	.071	75	*	.75		
Cadmium	.1	MG/KG	1.47	.419	100	*	1.00	39	
Chromium (VI)			NA	NA	500	NA	5.00		
Chromium	.3	MG/KG	68.5	19.52	2500	*	560.00	1,200	
Cobalt	.2	MG/KG	5.2	1.481	8000	*	80.00		
Copper	.4	MG/KG	679	193.5	2500	*	25.00	1,500	2,500
Lead	2	MG/KG	15.8	4.5	1000	*	5.00	300	350
Mercury	.4	MG/KG	.7	.199	20	*	.20	17	
Molybdenum	.1	MG/KG	24.3	6.91	3500	*	350.00		
Nickel	.3	MG/KG	59.2	16.872	2000	*	20.00	420	2,000
Selenium	.47	MG/KG	3.82	1.089	100	*	1.00	100	
Silver	.07	MG/KG	6.53	1.86	500	*	5.00		
Thallium	1	MG/KG	2.05	.584	700	*	7.00		
Vanadium	.2	MG/KG	21	5.985	2400	*	24.00		
Zinc	.5	MG/KG	908	259	5000	*	250.00	2,800	
Fluoride			NA	NA	18000	NA	180.00		
Sulfides-Reactive	11	MG/KG	ND	ND					
Sulfides-Total	2170	MG/KG	10550	3007					
Total Solids		WT%	28.5						
Total Volatile Solids		WT%	57.8						
pH	.08	PH	7.5		>2 - <12				
Aldrin	.071	MG/KG	ND	ND	1.4	*	.14		
Chlordanes	.048	MG/KG	.175	.0499	2.5	*	.25		
DDT, DDE, DDD	.071	MG/KG	ND	ND	1.0	*	.10		
2,4-D			NA	NA	100	NA	10.00		
Dieldrin	.035	MG/KG	ND	ND	8.0	*	.80		
Endrin	.035	MG/KG	ND	ND	0.2	*	.02		
Heptachlor	.016	MG/KG	ND	ND	4.7	*	.47		
Kepone			NA	NA	21	NA	2.10		
Lindane	0	MG/KG	ND	ND	4.0	*	.40		
Methoxychlor	.1	MG/KG	ND	ND	100	*	10.00		
Mirex	.018	MG/KG	ND	ND	21	*	2.10		
Pentachlorophenol			NA	NA	17	NA	1.70		
PCBs (Arochlors)	.58	MG/KG	ND	ND	50	*	5.00		
Toxaphene	.13	MG/KG	ND	ND	5	*	.50		
Trichloroethene	.003	MG/KG	ND	ND	2040	*	204.00		
2,4,5-TP			NA	NA	10	NA	1.00		

On the basis of these analyses, I certify that this dried sludge is non-hazardous as defined by California Code, Title 22, Section 66699.

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  - STLC = Soluble Threshold Limit Concentration.
  - W.E.T. = Waste Extraction Technique.
  - \* = The total wet concentration is less than 10 times the STLC. Therefore by definition, this substance is present in concentrations that are less than the limits for hazardous wastes.
  - \*\* = Limits are in mg/Kg (dry weight) based on 40 CFR part 503.13 Table 3 "Limits for Land Application".
  - \*\*\* = The California State Health and Safety Code 25157.8 established lower a limit for Lead.
  - NA = Not Analyzed, ND= Not Detected, NS= Not Sampled, NR= Not Required
  - MDL = Method Detection Limit (are in mg/Kg per dry weight; except for pH and Total and Volatile Solids)
- MBCDEWCN = Metro Biosolids Center Dewatered Centrifuged Sludge.

POINT LOMA WASTEWATER TREATMENT PLANT  
 QUARTERLY GRIT COMPOSITES  
 Inorganics and Organics

From: 01-JAN-2010 To: 31-DEC-2010

Analyte:	MDL	Units:	GRIT COMP	GRIT COMP
			01-JUN-2010	01-NOV-2010
			P520431	P538435
=====			=====	=====
Aluminum	4	MG/KG	2970	3760
Antimony	.5	MG/KG	ND	1.6
Arsenic	.68	MG/KG	1.01	3.35
Barium	.05	MG/KG	93.4	79.5
Beryllium	.02	MG/KG	0.05	ND
Cadmium	.1	MG/KG	0.5	0.2
Chromium	.3	MG/KG	20	24
Cobalt	.2	MG/KG	2.1	3.0
Copper	.4	MG/KG	207	321
Iron	20	MG/KG	21000	25700
Lead	2	MG/KG	14	29
Manganese	.2	MG/KG	170	188
Mercury	.4	MG/KG	ND	0.76
Molybdenum	.1	MG/KG	4.5	4.4
Nickel	.3	MG/KG	35	28
Selenium	.47	MG/KG	0.51	ND
Silver	.07	MG/KG	0.7	23.9
Thallium	1	MG/KG	ND	ND
Vanadium	.2	MG/KG	11.2	14.1
Zinc	.5	MG/KG	262	250
pH	.08	PH	6.62	6.92
Total Solids		WT%	49.5	73.0
Total Volatile Solids		WT%	44.7	15.7
Aldrin	71000	MG/KG	ND	ND
2,4-dichlorophenoxyacetic acid	2.66	MG/KG	ND	ND
Dieldrin	35000	MG/KG	ND	ND
Endrin	35000	MG/KG	ND	ND
Heptachlor	16000	MG/KG	ND	ND
BHC, Gamma isomer	18000	MG/KG	ND	ND
Methoxychlor	71000	MG/KG	ND	ND
Pentachlorophenol	1170	MG/KG	ND	ND
Toxaphene	130000	MG/KG	ND	ND
Trichloroethene	2.6	MG/KG	ND	ND
2,4,5-TP (Silvex)	2.87	MG/KG	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
GRIT - Chlorinated Pesticide Analysis

Annual 2010

Analyte	MDL	Units	PLR	PLR
			01-JUN-2010 P520431	01-NOV-2010 P538435
===== Aldrin	71000	NG/KG	ND	ND
Dieldrin	35000	NG/KG	ND	ND
BHC, Alpha isomer	28000	NG/KG	ND	ND
BHC, Beta isomer	32000	NG/KG	ND	ND
BHC, Gamma isomer	18000	NG/KG	ND	ND
BHC, Delta isomer	28000	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
p,p-DDD	18000	NG/KG	ND	ND
p,p-DDE	28000	NG/KG	ND	ND
p,p-DDT	35000	NG/KG	ND	ND
Heptachlor	16000	NG/KG	ND	ND
Heptachlor epoxide	28000	NG/KG	ND	ND
Alpha (cis) Chlordane	13000	NG/KG	ND	ND
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	ND
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	35000	NG/KG	ND	NA
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	32000	NG/KG	0	0
DDT and derivatives	71000	NG/KG	0	0
Chlordane + related cmpds.	52000	NG/KG	0	0
Polychlorinated biphenyls	580000	NG/KG	0	0
===== Chlorinated Hydrocarbons	580000	NG/KG	0	0

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



POINT LOMA WASTEWATER TREATMENT PLANT  
GRIT- ANALYSIS-ACID EXTRACTABLE COMPOUNDS

From 01-JAN-2010 To 31-DEC-2010

Analyte	MDL	Units	PLR	PLR
			01-JUN-2010 P520431	01-NOV-2010 P538435
2-chlorophenol	1310	UG/KG	ND	ND
4-chloro-3-methylphenol	1900	UG/KG	ND	ND
2,4-dichlorophenol	914	UG/KG	ND	ND
2,4-dimethylphenol	1070	UG/KG	ND	ND
2,4-dinitrophenol		UG/KG	ND	ND
2-methyl-4,6-dinitrophenol		UG/KG	ND	ND
2-nitrophenol	1600	UG/KG	ND	ND
4-nitrophenol		UG/KG	ND	ND
Pentachlorophenol	1170	UG/KG	ND	ND
Phenol	1440	UG/KG	ND	ND
2,4,6-trichlorophenol	1600	UG/KG	ND	ND
Total Chlorinated Phenols	1900	UG/KG	0.0	0.0
Total Non-Chlorinated Phenols	1600	UG/KG	0.0	0.0
Phenols	1900	UG/KG	0.0	0.0

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

POINT LOMA WASTEWATER TREATMENT PLANT  
GRIT - Priority Pollutants Base/Neutral Compounds

From 01-JAN-2010 To 31-DEC-2010

Source:			PLR	PLR
Date:			01-JUN-2010	01-NOV-2010
Sample:	MDL	Units	P520431	P538435
=====	=====	=====	=====	=====
Acenaphthene	863	UG/KG	ND	ND
Acenaphthylene	584	UG/KG	ND	ND
Anthracene	986	UG/KG	ND	ND
Benzidine		UG/KG	ND	ND
Benzo[A]anthracene	1100	UG/KG	<1100	<1100
3,4-benzo(B)fluoranthene	1127	UG/KG	<1127	ND
Benzo[K]fluoranthene	1930	UG/KG	ND	ND
Benzo[A]pyrene	741	UG/KG	845	<741
Benzo[G,H,I]perylene	301	UG/KG	370	413
4-bromophenyl phenyl ether	1030	UG/KG	ND	ND
bis(2-chloroethoxy)methane	1630	UG/KG	ND	ND
bis(2-chloroethyl) ether	1420	UG/KG	ND	ND
Bis-(2-chloroisopropyl) ether	1090	UG/KG	ND	ND
4-chlorophenyl phenyl ether	362	UG/KG	ND	ND
2-chloronaphthalene		UG/KG	ND	ND
Chrysene	352	UG/KG	940	987
Dibenzo(A,H)anthracene	616	UG/KG	ND	ND
Butyl benzyl phthalate	2210	UG/KG	ND	4280
Di-n-butyl phthalate	1450	UG/KG	3220	ND
Bis-(2-ethylhexyl) phthalate	3960	UG/KG	10100	ND
Diethyl phthalate	1400	UG/KG	ND	ND
Dimethyl phthalate	356	UG/KG	ND	ND
Di-n-octyl phthalate	3460	UG/KG	ND	ND
3,3-dichlorobenzidine	2030	UG/KG	ND	ND
2,4-dinitrotoluene	1030	UG/KG	<1030	ND
2,6-dinitrotoluene	1890	UG/KG	ND	ND
1,2-diphenylhydrazine	1590	UG/KG	ND	ND
Fluoranthene	216	UG/KG	1790	1500
Fluorene	2520	UG/KG	ND	ND
Hexachlorobenzene	813	UG/KG	ND	ND
Hexachlorobutadiene	940	UG/KG	ND	ND
Hexachlorocyclopentadiene	1890	UG/KG	ND	ND
Hexachloroethane	382	UG/KG	ND	ND
Indeno(1,2,3-CD)pyrene	953	UG/KG	ND	ND
Isophorone	1820	UG/KG	ND	ND
Naphthalene	2150	UG/KG	ND	ND
Nitrobenzene	2800	UG/KG	ND	ND
N-nitrosodimethylamine		UG/KG	ND	ND
N-nitrosodi-n-propylamine	1360	UG/KG	ND	ND
N-nitrosodiphenylamine	1330	UG/KG	ND	ND
Phenanthrene	1040	UG/KG	<1040	ND
Pyrene	1150	UG/KG	1600	<1150
1,2,4-trichlorobenzene	979	UG/KG	ND	ND
1,3-dichlorobenzene	733	UG/KG	ND	ND
1,2-dichlorobenzene	342	UG/KG	ND	ND
1,4-dichlorobenzene	1270	UG/KG	ND	<1270
=====	=====	=====	=====	=====
Polynuc. Aromatic Hydrocarbons	2520	UG/KG	3755	1400
Total Dichlorobenzenes	733	UG/KG	0	0
=====	=====	=====	=====	=====
Base/Neutral Compounds	3960	UG/KG	18865	7180

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

POINT LOMA WASTEWATER TREATMENT PLANT  
GRIT - Priority Pollutants Purgeable Compounds

From 01-JAN-2010 To 31-DEC-2010

Analyte	MDL	Units	PLR	
			01-JUN-2010 P520431	01-NOV-2010 P538435
Acrolein	6.4	UG/KG	ND	ND
Acrylonitrile	3.9	UG/KG	ND	ND
Benzene	2.1	UG/KG	ND	ND
Bromodichloromethane	2.2	UG/KG	ND	ND
Bromoform	2.4	UG/KG	ND	ND
Bromomethane	6.9	UG/KG	ND	ND
Carbon tetrachloride	3	UG/KG	ND	ND
Chlorobenzene	1	UG/KG	6.2	12.8
Chloroethane	3.6	UG/KG	ND	ND
Chloroform	2.3	UG/KG	ND	ND
Chloromethane	3.4	UG/KG	ND	ND
Dibromochloromethane	2.4	UG/KG	ND	ND
1,2-dichlorobenzene	1.5	UG/KG	3.8	ND
1,3-dichlorobenzene	1.8	UG/KG	2.6	ND
1,4-dichlorobenzene	1.5	UG/KG	91.2	3030
1,1-dichloroethane	1.9	UG/KG	ND	ND
1,1-dichloroethene	5	UG/KG	ND	ND
1,2-dichloroethane	3.6	UG/KG	ND	ND
trans-1,2-dichloroethene	3.5	UG/KG	ND	ND
1,2-dichloropropane	2.6	UG/KG	ND	ND
cis-1,3-dichloropropene	2.5	UG/KG	ND	ND
trans-1,3-dichloropropene	2.1	UG/KG	ND	ND
Ethylbenzene	1.4	UG/KG	8.5	2.2
Methylene chloride	3.5	UG/KG	71.3	11.9
1,1,2,2-tetrachloroethane	5.9	UG/KG	ND	ND
Tetrachloroethene	2.8	UG/KG	ND	ND
Toluene	1.2	UG/KG	235	106
1,1,1-trichloroethane	3.2	UG/KG	ND	ND
1,1,2-trichloroethane	2.8	UG/KG	ND	ND
Trichloroethene	2.6	UG/KG	ND	ND
Vinyl chloride	4.8	UG/KG	ND	ND
Halomethane Purgeable Cmpnds	6.9	UG/KG	0.0	0.0
Total Dichlorobenzenes	1.8	UG/KG	6.4	0.0
Purgeable Compounds	6.9	UG/KG	321.0	132.9

Additional volatile organic compounds determined;

Acetone	31.4	UG/KG	4350	3170
Allyl chloride	3.6	UG/KG	ND	ND
Benzyl chloride	4.3	UG/KG	9.2	ND
2-butanone	36.3	UG/KG	1190	975
Carbon disulfide	4.7	UG/KG	80.9	69.5
Chloroprene	3.1	UG/KG	ND	ND
1,2-dibromoethane	2.5	UG/KG	ND	ND
Isopropylbenzene	1.3	UG/KG	9.7	2.6
Methyl Iodide	3.8	UG/KG	ND	ND
Methyl methacrylate	2.4	UG/KG	ND	ND
2-nitropropane	45.8	UG/KG	ND	ND
ortho-xylene	1.9	UG/KG	12.6	2.6
Styrene	1.7	UG/KG	9.8	2.8
1,2,4-trichlorobenzene	979	UG/KG	ND	ND
meta,para xylenes	4.2	UG/KG	26.7	5.8
Trichlorofluoromethane	2.2	UG/KG	ND	ND
2-chloroethylvinyl ether	5.5	UG/KG	ND	ND
4-methyl-2-pentanone	9.7	UG/KG	ND	ND

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

POINT LOMA WASTEWATER TREATMENT PLANT  
GRIT - Herbicides

From 01-JAN-2010 To 31-DEC-2010

Analyte	MDL	Units	PLR 01-JUN-2010 P520431
2,4-dichlorophenoxyacetic acid	2.66	MG/KG	ND
2,4,5-TP (Silvex)	2.87	MG/KG	ND

ND=not detected

NS=not sampled

NA=not analyzed

## I. Raw Sludge Data Summary

2010 POINT LOMA WASTEWATER TREATMENT PLANT ANNUAL REPORT

### Raw Sludge Daily Average of 3 Shifts by Month

Month	pH	%Total Solids	%Total Volatile Solids
January	5.87	4.3	79.0
February	5.59	3.8	76.8
March	5.83	3.9	77.1
April	5.89	4.3	78.9
May	5.51	3.7	77.3
June	5.73	3.7	77.6
July	5.54	3.9	77.2
August	5.96	4.0	80.0
September	6.13	4.1	76.9
October	5.56	3.8	76.8
November	6.02	3.8	79.3
December	6.07	4.1	78.9
<b>Averages</b>	<b>5.81</b>	<b>4.0</b>	<b>78.0</b>

## J. Digester and Digested Sludge Data Summary

### Point Loma Wastewater Treatment Plant Annual Report Digesters Year: 2010

#### N1P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2010	6.97	2.2	57.5	2480	47	62.2	37.5
FEBRUARY -2010	7.02	2.2	57.8	2710	50	62.1	37.6
MARCH -2010	6.97	2.3	59.1	2650	54	62.2	37.5
APRIL -2010	6.90	2.4	60.0	2430	53	62.1	37.6
MAY -2010	6.82	2.4	61.3	2010	51	61.9	37.9
JUNE -2010	6.94	2.3	60.3	1930	55	62.4	37.2
JULY -2010	6.98	2.4	60.0	1760	53	62.2	37.5
AUGUST -2010	6.95	2.3	60.1	1790	49	62.4	37.2
SEPTEMBER-2010	6.95	2.2	60.0	1780	53	62.1	37.6
OCTOBER -2010	6.98	2.3	59.4	1880	56	62.6	37.1
NOVEMBER -2010	6.96	2.1	59.2	1980	55	62.3	37.2
DECEMBER -2010	7.01	2.2	59.3	2120	56	62.0	37.6
Average:	6.95	2.3	59.5	2127	53	62.2	37.5

#### N2P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2010	7.02	2.3	56.8	2590	49	62.3	37.5
FEBRUARY -2010	7.07	2.4	56.7	2830	49	62.1	37.7
MARCH -2010	7.06	2.3	57.4	2850	52	62.3	37.5
APRIL -2010	7.02	2.9	57.0	2850	55	62.3	37.5
MAY -2010	6.96	2.3	59.8	2280	53	62.3	37.6
JUNE -2010	6.97	2.3	59.4	2050	55	62.6	37.0
JULY -2010	6.98	2.3	59.0	1890	52	62.4	37.3
AUGUST -2010	6.97	2.3	59.2	1870	50	62.5	37.2
SEPTEMBER-2010	6.98	2.3	58.6	1890	55	61.8	37.9
OCTOBER -2010	7.00	2.4	57.9	1970	61	62.4	37.3
NOVEMBER -2010	6.98	2.0	58.4	2050	61	62.3	37.4
DECEMBER -2010	7.01	2.0	59.0	2180	58	62.1	37.6
Average:	7.00	2.3	58.3	2275	54	62.3	37.5

#### C1P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2010	6.99	2.3	57.8	2510	48	62.3	37.5	29
FEBRUARY -2010	7.04	2.3	57.8	2740	54	62.3	37.5	24
MARCH -2010	7.03	2.3	57.9	2810	56	62.4	37.5	29
APRIL -2010	7.06	2.4	57.6	2860	57	62.8	37.1	34
NOVEMBER -2010	6.94	1.8	57.0	1700	76	63.3	30.5	*
DECEMBER -2010	6.96	2.0	58.2	1930	66	62.4	37.2	*
Average:	7.00	2.2	57.7	2425	60	62.6	36.2	29

Point Loma Wastewater Treatment Plant Annual Report  
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C2P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2010	6.99	2.3	57.9	2450	50	62.6	37.2
FEBRUARY -2010	7.04	2.3	58.5	2640	58	62.4	37.4
MARCH -2010	7.04	2.2	57.8	2770	55	62.4	37.3
APRIL -2010	7.00	2.4	58.9	2620	55	62.7	37.1
MAY -2010	6.95	2.4	60.3	2240	56	62.3	37.5
JUNE -2010	6.99	2.4	59.9	1950	57	62.6	37.1
JULY -2010	6.97	2.4	59.3	1820	54	62.3	37.4
AUGUST -2010	6.94	2.3	59.5	1800	53	62.5	37.3
SEPTEMBER-2010	6.98	2.3	59.6	1760	56	62.1	37.6
OCTOBER -2010	6.99	2.3	59.2	1880	57	62.7	37.1
NOVEMBER -2010	6.97	2.2	59.8	1940	58	62.5	37.2
DECEMBER -2010	6.97	2.2	59.6	2080	62	62.4	37.3
Average:	6.99	2.3	59.2	2163	56	62.5	37.3

S1P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2010	7.02	2.5	56.4	2600	47	62.5	37.3
FEBRUARY -2010	7.08	2.3	56.9	2780	51	62.3	37.5
MARCH -2010	7.05	2.4	56.7	2930	55	62.5	37.3
APRIL -2010	7.04	2.5	58.7	2750	55	62.6	37.2
MAY -2010	6.95	2.8	59.5	2400	64	62.5	37.3
JUNE -2010	7.02	2.6	59.3	2090	60	62.8	37.0
JULY -2010	6.99	2.4	59.6	1860	54	62.4	37.2
AUGUST -2010	6.99	2.3	59.4	1870	50	62.6	37.0
SEPTEMBER-2010	7.00	2.2	59.6	1890	52	62.3	37.3
OCTOBER -2010	6.99	2.2	59.9	1890	57	62.7	36.9
NOVEMBER -2010	6.98	2.2	59.2	2020	60	62.7	37.0
DECEMBER -2010	7.00	2.1	59.3	2170	59	62.4	37.4
Average:	7.01	2.4	58.7	2271	55	62.5	37.2

S2P

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)	H2S ppm
JANUARY -2010	7.05	2.3	56.8	2560	47	62.5	37.3	*
FEBRUARY -2010	7.12	2.2	57.1	2730	51	62.3	37.5	*
MARCH -2010	7.09	2.3	57.7	2830	55	62.5	37.3	*
APRIL -2010	7.06	2.3	58.6	2730	54	62.4	37.3	30
MAY -2010	7.00	2.4	60.0	2360	58	62.4	37.4	31
JUNE -2010	7.04	2.4	59.4	2050	55	62.6	37.2	30
JULY -2010	6.99	2.3	59.3	1830	53	62.3	37.4	27
AUGUST -2010	6.96	2.3	59.7	1830	50	62.5	37.2	26
SEPTEMBER-2010	6.98	2.2	59.8	1800	51	62.3	37.4	28
OCTOBER -2010	6.99	2.2	59.4	1920	59	62.7	37.1	25
NOVEMBER -2010	6.99	2.1	59.8	1930	61	62.5	37.2	30
DECEMBER -2010	6.99	2.1	59.7	2080	62	62.3	37.5	24
Average:	7.02	2.3	58.9	2221	55	62.4	37.3	28

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DIG 7

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2010	7.12	2.1	56.0	2640	48	62.8	36.9
FEBRUARY -2010	7.17	2.1	55.9	2870	51	62.3	37.2
MARCH -2010	7.16	2.1	56.5	2900	55	62.5	37.1
APRIL -2010	7.14	2.2	57.3	2860	57	63.0	36.7
MAY -2010	7.10	2.2	59.1	2490	60	63.0	36.8
JUNE -2010	7.05	2.2	58.4	2170	64	63.2	36.5
JULY -2010	7.05	2.2	58.4	2020	59	62.9	36.7
AUGUST -2010	7.04	2.2	58.6	2010	52	63.1	36.6
SEPTEMBER-2010	7.03	2.1	58.0	2000	55	62.8	36.9
OCTOBER -2010	7.07	2.1	58.4	2060	62	63.5	36.3
NOVEMBER -2010	7.07	1.9	58.1	2160	67	63.6	36.1
DECEMBER -2010	7.06	1.8	58.3	2250	63	63.1	36.6
Average:	7.09	2.1	57.8	2369	58	63.0	36.7

DIG 8

	pH	Total Solids (%)	Volatile Solids (%)	Alkalinity (mg/L)	Volatile Acids (mg/L)	Methane (%)	Carbon Dioxide (%)
JANUARY -2010	7.05	2.2	57.4	2480	46	62.4	37.4
FEBRUARY -2010	7.10	2.2	57.5	2710	50	62.2	37.6
MARCH -2010	7.08	2.2	58.2	2740	54	62.3	37.4
APRIL -2010	7.08	2.3	58.5	2720	56	62.4	37.4
MAY -2010	7.14	2.1	57.3	2980	57	63.9	35.2
Average:	7.09	2.2	57.8	2726	53	62.6	37.0