

Stream Pollutant Loading Reductions Resulting from Treatment Systems

Aluminum:

JB#2	2.45 tons per yr.
Hamilton	.9 tons per yr.
Langeloth	<u>.1 tons per yr.</u>
Total	3.5 tons per yr.

Iron:

JB#2	9.7 tons per yr.
Hamilton	7 tons per yr.
Langeloth	<u>42 tons per yr.</u>
Total	58.7 tons per yr.

Acidity:

JB#2	47.26 tons per yr.
Hamilton	8.6 tons per yr.
Langeloth	<u>61.45 tons per yr.</u>
Total	117.31 tons per yr.

Biomost, Inc.
3016 Unionville Road
Cranberry Twp, PA 16066

1110102

SAMPLE ID	SAMPLE DATE	TAKEN BY	FLOW gpm	FIELD PH	LAB PH	COND. umhos	TEMP DEG C	FIELD ALK mg/L	ALK mg/L	ACIDITY mg/L	IRON mg/L	DISS IRON mg/L	MANG. mg/L	DISS MANG mg/L	ALUM. mg/L	DISS ALUM mg/L	SO4 mg/L	TSS mg/L	LAB ID
Langloth discharge (L2)	21-Mar-07	CFD	38	6.11	5.98	5760	14.0	354	263.28	146.69	293.00	287.00	3.56	2.19	9.31	0.27	2058.9	19	377494
L2A	21-Mar-07	CFD		6.44	5.90	3779	10.0	122	38.02	68.93	104.00	100.60	2.22	2.19	0.17	0.16	1646.9	9	377495
ALD	21-Mar-07	CFD	75	6.11	6.15	2830	14.0	364	344.74	-164.54	66.04	64.37	3.05	3.01	0.49	0.21	1457.5	11	377496
SP1	21-Mar-07	CFD		7.30	7.08	2656	9.0	216	208.52	-174.72	5.41	0.76	3.03	2.97	0.16	<0.04	975.3	6	377497
SP2	21-Mar-07	CFD		7.80	7.54	1830	10.0	151	151.84	-121.15	1.16	0.60	1.56	1.50	0.33	0.08	883.7	2	377498
Hamilton Discharge	21-Mar-07	CFD		6.54	5.54	1292	10.0	79	11.80	192.96	163.00	155.00	5.94	5.82	0.68	0.20	685.7	10	377499
VF/W	21-Mar-07	CFD		6.71	6.04	1330	7.0	98	43.71	15.94	54.04	53.17	5.64	5.62	0.31	0.17	573.7	25	377500
SETTLING	21-Mar-07	CFD	200	6.64	4.68	1068	7.0	31	1.08	89.86	68.89	59.49	4.52	4.52	0.16	<0.04	508.5	5	377501
VF/W EM SPILLWAY	21-Mar-07	CFD		6.45	5.40	1203	9.0	43	6.76	163.58	191.00	135.00	5.28	5.25	0.31	<0.04	547.9	15	377502
VF/W	21-Mar-07	CFD		6.00	6.01	1573	12.0	43	36.66	16.13	20.43	20.00	3.57	3.54	1.03	0.35	797.6	10	377503
SETTLING POND	21-Mar-07	CFD	150	6.21	6.33	1570	13.0	43	35.77	21.50	20.44	19.77	3.55	3.53	1.46	0.19	849.3	6	377504
JB2 discharge	21-Mar-07	CFD		4.20	3.97	1635	14.0	0	N/D	288.77	106.04	104.91	3.82	3.82	13.78	13.20	857.9	5	377505

61.15 ton/yr.
42 ton/yr.
complete removal
77% loss

15 ton/yr.
95% loss

total all systems
 9.7 58.2
 42 L
 7 9.4
 58.7 ton/yr.
 2.9
 3.5 ton/yr.
 47.84
 61.45
 8.6
 117.81 ton/yr.

N.D. - Not Detectable

Approved by _____

