

2009 ENVIRONMENT SUMMARY

Table 1. Effluent Discharges

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2008	Permit
Flow	(ML/d)	73.6	75.3	74.2	76.5	71.0	67.9	77.2	63.8	66.2	63.5	67.5	72.2	70.7	72.3	106.5
BOD	(kg/d)	1,001	964	970	920	487	341	542	421	913	352	286	416	634	981	
	(kg/t)	0.5	0.5	0.5	0.5	0.3	0.2	0.3	0.2	0.5	0.2	0.1	0.2	0.3	0.5	3.95
TSS	(kg/d)	1,356	2,489	1,657	1,956	913	1,760	2,913	1,514	2,618	2,004	857	1,369	1,784	2,273	
	(kg/t)	0.7	1.3	0.9	1.0	0.5	0.9	1.5	0.8	1.4	1.0	0.4	0.7	0.9	1.2	6.1
AOX	(kg/d)	317	297	236	242	217	91	246	228	237	265	152	248	231	288	
	(kg/t)	0.26	0.24	0.19	0.24	0.18	0.08	0.20	0.19	0.19	0.22	0.13	0.20	0.19	0.24	0.48
COD	(kg/d)	43,657	48,706	35,796	48,441	42,709	29,601	43,634	44,136	32,679	37,969	39,387	49,941	41,388	51,008	
	(kg/t)	22.6	25.2	18.5	25.1	22.1	15.3	22.6	22.9	16.9	19.7	20.4	25.9	21.4	26.4	
Effluent Trout	No.	1	1	1	1	1	1	1	1	1	1	1	1	12	13	
	Pass	1	1	1	1	1	1	1	1	1	1	1	1	12	13	100%
Effluent Daphnia	No.	4	4	5	4	4	5	4	4	4	4	4	5	51	52	
	Pass	4	4	5	4	4	5	4	4	4	4	4	5	51	50	
CWS Trout	No.	1	1	1	1	1	1	1	1	1	1	1	1	12	12	
	Pass	1	1	1	1	1	1	1	1	1	1	1	1	12	12	100%
CWS Daphnia	No.	1	1	1	1	1	1	1	1	1	1	1	1	12	12	
	Pass	1	1	1	1	1	1	1	1	1	1	1	1	12	12	

TSS, BOD, AOX and Flow are averages; Toxicities are totals

Table 2. Landfill Volumes (average cubic metres)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2008	%
Ash	1,803	2,720	2,573	2,028	2,067	1,345	1,443	1,111	1,014	604	1,072	2,223	1,667	2,198	37.6
Lime Mud/ Dregs/ Grits	1,713	1,311	2,023	1,775	981	1,115	1,239	877	1,497	2,075	1,651	919	1,431	1,930	32.3
Brown Fibre Rejects	178	557	413	545	223	70	289	211	227	190	144	301	279	271	6.3
Effluent Sludge	1,270	888	650	1,259	671	495	1,507	1,589	733	1,001	1,187	1,073	1,027	1,735	23.2
Other	0	0	186	0	0	31	10	0	0	0	72	31	28	10	0.6
Gravel	0	0	217	0	0	0	31	0	0	382	0	0	52	126	

Table 3. Landfill Volumes (total cubic metres)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	Projected	2008
TOTAL (excl. gravel)	4,964	5,476	5,845	5,607	3,941	3,057	4,488	3,789	3,470	3,870	4,127	4,547	4,432	53,180	73,735

TARGET: <80,000 cubic metres/year PERMIT: <92,500 cubic metres/year

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Table 4. Air Emissions

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2008	Permit
Power Boiler	PM	mg/m3	20				119			16			24	0	45	79	115***
	SO2	mg/m3	74	115	104	111	86	66	78	90	69	29	72	109	84	96	300
	NOx*	mg/m3	154	170	234	154	178	133	113	119	110	98	154	145	147	139	300
	NOx**	mg/m3	192	197	253	156	180	151	163	123	125	114	184	155	166	165	450
Recovery Boiler	TRS	mg/m3	0.6	0.3	0.3	0.4	0.5	0.7	0.4	1.4	0.5	0.4	0.4	0.6	0.5	0.5	5.0
	PM	mg/m3	47.6				62.3			41			55.3		52	41	150
Kiln	PM	mg/m3	37.2				34.8			20.5			19.5		28	15	100
Smelt Tk.	PM	mg/m3	99				167			128			90		121	122	200
Misc.	TRS	g/adut	35	10	26	13	13	11	15	14	2	1	3	5	12	53	110
CNCG	vent	min	21	8	73	139	41	17	220	2	3	138	4	0	666	824	
DNCG	vent	min	4,427	402	2,656	7,626	1,409	338	4,558	132	269	19,892	976	102	42,787	53,471	
Langdale	TRS	hrs>A	0	0	2	0	2	1	4	2	1	2	0	0	14	32	

* excluding time when >60 t/h steam from gas

**all time

12 month rolling average, single test not to be > 230

All data are averages, except NCG venting and hours >A Level, which are totals