

2017 ENVIRONMENT SUMMARY

Table 1. Effluent Discharges

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2016	Target	Permit
Flow	(ML/d)	73.9	60.8	63.1	47.0	51.4	63.6	59.9	64.9	56.6	58.0	62.6	59.4	60.1	61.0		106.5
BOD	(kg/d)	1,324	591	790	599	610	548	653	587	361	517	418	409	617	1,086		
	(kg/t)	1.1	0.5	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.4	0.3	0.3	0.5	0.6	<1.0	3.95
TSS	(kg/d)	4,873	1,871	2,745	2,276	2,780	1,768	2,953	1,775	1,142	2,392	1,276	1,554	2,284	2,483		
	(kg/t)	3.9	1.5	2.2	1.8	2.2	1.4	2.3	1.4	0.9	1.9	1.0	1.2	1.8	1.3	<2.0	6.1
AOX	(kg/d)	389	456	414	261	111	41	369	408	289	303	266	291	300	341		
	(kg/t)	0.3	0.4	0.3	0.2	0.1	0.0	0.3	0.3	0.2	0.3	0.2	0.2	0.2	0.3	<0.40	0.48
COD	(kg/d)	36,431	34,960	37,085	24,181	2,831	31,178	27,659	29,708	26,654	22,792	22,660	27,739	26,990	33,214		
	(kg/t)	29.0	27.8	29.5	19.2	2.3	24.8	22.0	23.6	21.2	18.1	18.0	22.1	21.5	17.2		
Effluent Trout	No.	1	1	1	1	1	1	1	1	1	1	1	1	12	19		
	Pass	1	1	1	1	1	1	1	1	1	1	1	1	12	15	100%	100%
Effluent Daphnia	No.	5	4	4	4	4	5	4	5	4	5	4	4	52	54		
	Pass	5	4	4	4	4	5	4	5	4	5	4	3	51	52	100%	100%
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%	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	100%	100%

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	2016	%
Ash	1,815	1,393	1,147	2,827	2,380	2,211	280	2,221	2,247	1,345	1,117	2,184	1,764	1,875	59.7
Line Mud/ Dregs/ Grits	815	939	692	361	661	753	403	423	650	258	165	960	590	466	20.0
Brown Fibre Rejects	136	190	58	95	45	198	157	149	95	140	74	111	121	161	4.1
Effluent Sludge	702	361	341	361	217	351	2,064	454	165	83	248	310	471	372	16.0
Other	0	0	0	10	0	0	0	0	0	0	83	10	9	7	0.3
Gravel	0	0	0	72	0	0	0	0	0	72	0	217	30	9	

Table 3. Landfill Volumes (total cubic metres)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	Projected	2016
TOTAL (excl. gravel)	3,468	2,884	2,237	3,655	3,303	3,513	2,904	3,247	3,157	1,826	1,687	3,575	2,955	35,457	34,579

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	2016	Target	Permit
Power Boiler	PM	mg/m ³		11				25					48		21	8	<100	115***
	SO₂	mg/m ³	156	112	73	42	35	90	84	137	137	99	86	90	95	158	<200	300
	NO_x*	mg/m ³	143	163	134	141	153	136	174	151	151	151	157	151	150	161		300
	NO_x**	mg/m ³	177	209	205	188	157	149	170	165	165	198	197	185	180	208		450
Recovery Boiler	TRS	mg/m ³	1.7	1.1	1.2	0.9	0.4	0.7	1		1	0.7	0.8	0.8	0.9	0.6833	<1.0	5.0
	PM	mg/m ³		62				49.8			0			0	46.1	59	<50	150
Kiln	PM	mg/m ³	4.1					5.5		11.5				0	6.6	45.875	<20	100
Smelt Tk.	PM	mg/m ³		105				119			0			0	106	112	<125	200
Misc.	TRS	g/adut	39.8	36.2	1.1	1.8	4.0	74.0	2.6	87.8	4.2	4.7	69.1	5.2	27.5	0.2497	<75	110
CNCG	vent	min	8	0	9	2	92	0	22	3	223	34	94	27	514	2,530		
DNCG	vent	min	194	159	265	4,269	1,655	517	39,426	11,480	7,347	381	3,233	5,612	74,538	46,579		
Langdale	TRS	hrs>A	6	4	0	0	0	3	19	31	0	4	0	14	81	20		

* 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