

## 2015 ENVIRONMENT SUMMARY

**Table 1. Effluent Discharges**

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	2014	Target	Permit
<b>Flow</b>	(ML/d)	73.9	78.7	71.7	70.5	55.0	66.7	60.5	47.9	46.6	52.9	50.7	56.4	61.0	68.6		106.5
<b>BOD</b>	(kg/d)	1,324	2,144	1,453	1,231	1,048	777	672	579	621	885	1,335	957	1,086	1,176		
	(kg/t)	0.7	1.1	0.8	0.6	0.5	0.4	0.3	0.3	0.3	0.5	0.7	0.5	0.6	0.6	<1.0	3.95
<b>TSS</b>	(kg/d)	4,873	4,443	3,123	3,310	2,153	2,430	1,661	1,220	892	1,307	2,476	1,904	2,483	3,057		
	(kg/t)	2.5	2.3	1.6	1.7	1.1	1.3	0.9	0.6	0.5	0.7	1.3	1.0	1.3	1.5	<2.0	6.1
<b>AOX</b>	(kg/d)	389	380	414	370	187	330	322	404	327	354	376	242	341	351		
	(kg/t)	0.3	0.3	0.3	0.3	0.1	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	<0.40	0.48
<b>COD</b>	(kg/d)	40,500	42,214	43,157	39,717	16,562	36,229	40,547	30,959	30,826	35,274	31,208	11,374	33,214	37,368		
	(kg/t)	21.0	21.9	22.4	20.6	8.6	18.8	21.0	16.0	16.0	18.3	16.2	5.9	17.2	18.2		
<b>Effluent Trout</b>	No.	1	1	1	1	2	1	1	1	1	1	5	3	19	14		
	Pass	1	1	1	1	2	1	1	1	1	1	1	3	15	14	100%	100%
<b>Effluent Daphnia</b>	No.	4	4	5	4	5	5	4	4	5	4	6	4	54	52		
	Pass	4	4	5	4	4	5	4	4	5	4	5	4	52	47	100%	100%
<b>CWS Trout</b>	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%
<b>CWS Daphnia</b>	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	2014	%
<b>Ash</b>	2,676	2,431	1,980	1,809	639	2,037	1,732	1,899	1,899	1,111	1,900	2,389	1,875	3,566	65.1
<b>Lime Mud/ Dregs/ Grits</b>	557	175	970	722	175	351	433	588	310	320	568	423	466	1,789	16.2
<b>Brown Fibre Rejects</b>	235	194	215	227	58	194	103	50	37	227	194	198	161	719	5.6
<b>Effluent Sludge</b>	330	186	888	72	1,817	227	144	10	10	423	114	248	372	655	12.9
<b>Other</b>	41	0	0	0	0	0	0	41	0	0	0	0	7	85	0.2
<b>Gravel</b>	0	0	41	0	0	0	0	72	0	0	0	0	9	91	

**Table 3. Landfill Volumes (total cubic metres)**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	Projected	2014
<b>TOTAL (excl. gravel)</b>	3,840	2,986	4,052	2,831	2,689	2,809	2,413	2,588	2,256	2,082	2,775	3,258	2,882	34,579	77,742

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	2014	Target	Permit
<b>Power Boiler</b>	<b>PM</b>	mg/m <sup>3</sup>			6	14				7			5		8	12	<100	115***
	<b>SO<sub>2</sub></b>	mg/m <sup>3</sup>	194	195	156	152	33	119	252	164	150	181	144	157	158	146	<200	300
	<b>NO<sub>x</sub>*</b>	mg/m <sup>3</sup>	171	200	143	201	59	165	185	162	161	139	173	168	161	189		300
	<b>NO<sub>x</sub>**</b>	mg/m <sup>3</sup>	231	267	177	232	194	171	190	162	189	229	220	239	208	216		450
<b>Recovery Boiler</b>	<b>TRS</b>	mg/m <sup>3</sup>	0.8	1.2	0.6	0.6	0.6	0.9	1		0.5	0.4	0.3	0.3	0.7	1.5167	<1.0	5.0
	<b>PM</b>	mg/m <sup>3</sup>			26.2	67.4					75.8			65.6	58.8	60	<50	150
<b>Kiln</b>	<b>PM</b>	mg/m <sup>3</sup>			65.4	60.2				24.4				33.5	45.9	36.117	<20	100
<b>Smelt Tk.</b>	<b>PM</b>	mg/m <sup>3</sup>			126	106					123			93	112	69	<125	200
<b>Misc.</b>	<b>TRS</b>	g/adut	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.127	<75	110
<b>CNCG</b>	<b>vent</b>	min	44	51	127	4	1,496	45	66	14	99	93	491	0	2,530	964		
<b>DNCG</b>	<b>vent</b>	min	838	800	3,948	279	20,194	6,787	317	291	5,644	6,872	128	481	46,579	46,342		
<b>Langdale</b>	<b>TRS</b>	hrs>A	0	0	0	0	9	1	0	0	1	5	3	1	20	23		

\* 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