

## Fly Ash Quarterly Report

July 1, 2018 to September 30, 2018

The following quarterly fly ash report was sent to the Ministry of Environment and Climate Change Strategy on October 17, 2018.

One fly ash load was reprocessed on site as the cadmium content was above the Leachate Quality Standards of the Hazardous Waste Regulation. The remaining loads processed in the quarter passed the Leachate Quality Standards and pH requirements of the Hazardous Waste Regulation and were released for landfill disposal.

<b>July 1, 2018 to September 30, 2018</b>	
Number of loads tested	113
Number of samples submitted	116
Samples with leachable cadmium above the detection limit	4
Maximum leachable cadmium value (mg/L) of loads released for disposal	0.156
Samples with leachable lead above the detection limit	37
Maximum leachable lead value (mg/L) of loads released for disposal	3.43
Loads meeting Leachate Quality Standards and pH requirements of the Hazardous Waste Regulation	112
Loads reprocessed on site	1

Note: The number of samples submitted includes monthly fly ash composite samples.



date sample sent to lab	lab sample number	Covanta Sample ID	name of lab	date of report	pH 2:1	initial pH	pH after HCl	pH of leaching fluid	final pH	cadmium	lead
4-Sep-18	L2157775-1	FA 1808	ALS	11-Sep-18	11.69	12.32	12.19	2.89	11.07	<0.050	<0.25
4-Sep-18	L2157774-1	BURFA WMXU 2000919 Sep 3, 2018	ALS	5-Sep-18	11.64	12.3	11.94	2.9	10.22	<0.050	<0.25
4-Sep-18	L2157774-2	BURFA WMXU 2000354 Sep 3, 2018	ALS	5-Sep-18	11.67	12.22	11.76	2.9	9.62	<0.050	<0.25
5-Sep-18	L2158738-1	BURFA WMXU 2000631 Sep 4, 2018	ALS	6-Sep-18	11.73	12.22	11.81	2.89	9.96	<0.050	<0.25
5-Sep-18	L2158738-2	BURFA WMXU 2000082 Sep 4, 2018	ALS	6-Sep-18	11.7	12.24	11.93	2.89	9.72	<0.050	<0.25
6-Sep-18	L2159721-2	BURFA WMXU 2000673 Sep 5, 2018	ALS	7-Sep-18	11.62	12.28	12.19	2.88	11.74	<0.050	0.86
6-Sep-18	L2159721-1	BURFA WMXU 2000210 Sep 5, 2018	ALS	7-Sep-18	11.61	12.25	12.15	2.88	11.04	<0.050	<0.25
7-Sep-18	L2160498-2	BURFA WMXU 2000185 Sep 6, 2018	ALS	10-Sep-18	11.6	12.19	11.83	2.9	9.9	<0.050	<0.25
7-Sep-18	L2160498-1	BURFA WMXU 2000837 Sep 6, 2018	ALS	10-Sep-18	11.61	12.18	11.61	2.9	9.18	0.12	<0.50
11-Sep-18	L2162119-1	BURFA WMXU 2000420 Sep 10, 2018	ALS	12-Sep-18	11.68	12.15	11.29	2.93	8.65	0.156	<0.25
11-Sep-18	L2162119-2	BURFA WMXU 2000122 Sep 10, 2018	ALS	12-Sep-18	11.71	12.23	11.65	2.93	9.73	<0.050	<0.25
12-Sep-18	L2162945-1	BURFA WMXU 2000523 Sep 11, 2018	ALS	13-Sep-18	11.61	12.25	12.02	2.9	8.82	0.113	<0.25
12-Sep-18	L2162945-2	BURFA WMXU 2000288 Sep 11, 2018	ALS	13-Sep-18	11.56	12.13	11.57	2.9	9.55	<0.050	<0.25
14-Sep-18	L2164554-1	BURFA WMXU 2000708 Sep 13, 2018	ALS	17-Sep-18	11.68	12.21	11.9	2.91	10.05	<0.050	<0.25
14-Sep-18	L2164554-2	BURFA WMXU 2001160 Sep 13, 2018	ALS	17-Sep-18	11.65	12.22	11.92	2.91	9.83	<0.050	<0.25
17-Sep-18	L2165420-1	BURFA WMXU 2000 668 Sep 16, 2018	ALS	18-Sep-18	11.77	12.27	11.86	2.89	9.85	<0.050	<0.25
17-Sep-18	L2165420-2	BURFA WMXU 2000 879 Sep 16, 2018	ALS	18-Sep-18	11.75	12.3	12.11	2.89	10.95	<0.050	<0.25
18-Sep-18	L2166205-1	BURFA WMXU 2000966 Sep 17, 2018	ALS	19-Sep-18	11.67	12.22	12.18	2.87	11.14	<0.050	<0.25
18-Sep-18	L2166205-2	BURFA WMXU 2000971 Sep 17, 2018	ALS	19-Sep-18	11.72	12.18	12.13	2.87	10.29	<0.050	<0.25
19-Sep-18	L2167028-1	BURFA WMXU 2000924 Sep 18, 2018	ALS	20-Sep-18	11.72	12.37	12.27	2.89	11.45	<0.050	<0.25
20-Sep-18	L2168018-1	BURFA WMXU 2000781 Sep 19, 2018	ALS	21-Sep-18	11.66	12.37	12.1	2.93	11.99	<0.050	0.62
21-Sep-18	L2168817-1	BURFA WMXU 2001221 Sep 20, 2018	ALS	24-Sep-18	11.72	12.32	12.24	2.91	11.54	<0.050	<0.25
24-Sep-18	L2169530-2	BURFA WMXU 2000652 Sep 23, 2018	ALS	25-Sep-18	11.66	12.29	12.08	2.89	12	<0.050	1.05
24-Sep-18	L2169530-1	BURFA WMXU 2000333 Sep 23, 2018	ALS	25-Sep-18	11.68	12.34	12.06	2.89	12.01	<0.050	1.33
25-Sep-18	L2170252-1	BURFA WMXU 2000164 Sep 24, 2018	ALS	26-Sep-18	11.67	12.29	12.14	2.92	11.9	<0.050	0.3
25-Sep-18	L2170252-2	BURFA WMXU 2000035 Sep 24, 2018	ALS	26-Sep-18	11.67	12.22	11.87	2.92	9.89	<0.050	<0.25
26-Sep-18	L2171240-1	BURFA WMXU 2000328 Sep 25, 2018	ALS	27-Sep-18	11.67	12.3	11.84	2.9	10.52	<0.050	<0.25
27-Sep-18	L2171931-1	BURFA WMXU 2001094 Sep 26, 2018	ALS	28-Sep-18	11.69	12.15	11.8	2.84	11.24	<0.050	<0.25
28-Sep-18	L2172826-1	BURFA WMXU 2001026 Sep 27, 2018	ALS	1-Oct-18	11.69	12.31	12.15	2.87	11.61	<0.050	<0.25
4-Oct-18	L2176036-1	FA 1809	ALS	15-Oct-18	11.62	12.22	12.03	2.92	10.64	<0.05	<0.25