

## Fly Ash Quarterly Report

April 1, 2019 to June 30, 2019

The following quarterly fly ash report was sent to the Ministry of Environment and Climate Change Strategy on July 24, 2019.

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>April 1, 2019 to June 30, 2019</b>	
Number of loads tested	113
Number of samples submitted	116
Samples with leachable cadmium above the detection limit	6
Maximum leachable cadmium value (mg/L) of loads released for disposal	0.172
Samples with leachable lead above the detection limit	22
Maximum leachable lead value (mg/L) of loads released for disposal	2.68
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	TCLP					
						initial pH	pH after HCl	pH of leaching fluid	final pH	cadmium	lead
4-Jun-19	L2284790-2	BURFA WMXU 2001216 Jun 3, 2019	ALS	5-Jun-19	11.57	12.2	11.99	2.88	11.13	<0.050	<0.25
5-Jun-19	L2285845-1	BURFA WMXU 2000858 Jun 4, 2019	ALS	6-Jun-19	11.55	12.03	11.78	2.87	9.82	<0.050	<0.25
5-Jun-19	L2285845-2	BURFA WMXU 2001052 Jun 4, 2019	ALS	6-Jun-19	11.51	12.14	12	2.87	10.52	<0.050	<0.25
6-Jun-19	L2286839-1	BURFA WMXU 2000457 Jun 5, 2019	ALS	7-Jun-19	11.5	11.94	11.35	2.92	10.12	<0.050	<0.25
6-Jun-19	L2286839-2	BURFA WMXU 2001113 Jun 5, 2019	ALS	7-Jun-19	11.51	12.07	11.5	2.92	10.45	<0.050	<0.25
10-Jun-19	L2288304-1	BURFA WMXU 2001129 Jun 7, 2019	ALS	11-Jun-19	11.49	11.95	11.23	2.89	9.44	<0.050	<0.25
10-Jun-19	L2288304-2	BURFA WMXU 2000293 Jun 7, 2019	ALS	11-Jun-19	11.49	11.9	11.13	2.89	9.93	<0.050	<0.25
10-Jun-19	L2288313-1	BURFA WMXU 2000159 Jun 9, 2019	ALS	11-Jun-19	11.51	12.06	11.61	2.89	11.04	<0.050	<0.25
10-Jun-19	L2288313-2	BURFA WMXU 200120 Jun 9, 2019	ALS	11-Jun-19	11.54	12.15	11.64	2.89	11.49	<0.050	<0.25
11-Jun-19	L2289243-1	BURFA WMXU 2000591 Jun 10, 2019	ALS	12-Jun-19	11.49	11.96	11.29	2.89	10.21	<0.050	<0.25
13-Jun-19	L2291187-1	BURFA WMXU 2000816 Jun 12, 2019	ALS	14-Jun-19	11.43	12.15	11.21	2.89	11.09	<0.050	<0.25
13-Jun-19	L2291187-2	BURFA WMXU 2000992 Jun 12, 2019	ALS	14-Jun-19	11.43	12.06	10.67	2.89	10.64	<0.050	<0.25
12-Jun-19	L2290143-1	BURFA WMXU 2000673 Jun 11, 2019	ALS	14-Jun-19	11.46	12.15	11.2	2.89	10.82	<0.050	<0.25
14-Jun-19	L2291926-1	BURFA WMXU 2000077 Jun 13, 2019	ALS	17-Jun-19	11.47	11.94	11.25	2.85	9.92	<0.050	<0.25
17-Jun-19	L2292784-1	BURFA WMXU 2000098 Jun 16, 2019	ALS	18-Jun-19	11.31	12.22	11.77	2.87	10.15	<0.050	<0.25
17-Jun-19	L2292784-2	BURFA WMXU 2000230 Jun 16, 2019	ALS	18-Jun-19	11.34	12.24	11.71	2.87	10.39	<0.050	<0.25
18-Jun-19	L2293749-1	BURFA WMXU 2000797 Jun 17, 2019	ALS	19-Jun-19	11.52	12.16	12.01	2.88	10.32	<0.050	<0.25
18-Jun-19	L2293749-2	BURFA WMXU 2000631 Jun 17, 2019	ALS	19-Jun-19	11.49	12.03	11.54	2.88	8.91	0.087	<0.25
19-Jun-19	L2294815-1	BURFA WMXU 2000333 Jun 18, 2019	ALS	20-Jun-19	11.56	12.19	11.86	2.88	10.37	<0.050	<0.25
19-Jun-19	L2294815-2	BURFA WMXU 2000360 Jun 18, 2019	ALS	20-Jun-19	11.53	12.16	11.92	2.88	10.53	<0.050	<0.25
20-Jun-19	L2295714-1	BURFA WMXU 2000713 Jun 19, 2019	ALS	21-Jun-19	11.57	11.93	11.16	2.85	9.56	<0.050	<0.25
21-Jun-19	L2296513-1	BURFA WMXU 2000890 Jun 20, 2019	ALS	24-Jun-19	11.21	11.8	11.1	2.87	8.43	0.172	<0.25
24-Jun-19	L2297260-1	BURFA WMXU 2001010 Jun 23, 2019	ALS	25-Jun-19	11.51	12.06	11.39	2.89	8.85	<0.050	<0.25
24-Jun-19	L2297260-2	BURFA WMXU 2000930 Jun 23, 2019	ALS	25-Jun-19	11.53	12.08	11.38	2.89	9.63	<0.050	<0.25
25-Jun-19	L2298148-1	BURFA WMXU 2001073 Jun 24, 2019	ALS	26-Jun-19	11.44	12.04	11.6	2.9	9.43	<0.050	<0.25
26-Jun-19	L2299111-1	BURFA WMXU 2000061 Jun 25, 2019	ALS	27-Jun-19	11.4	11.75	11.37	2.88	9.55	<0.050	<0.25
26-Jun-19	L2299111-2	BURFA WMXU 2000380 Jun 25, 2019	ALS	27-Jun-19	11.42	11.85	11.64	2.88	10.49	<0.050	<0.25
27-Jun-19	L2300133-1	BURFA WMXU 2000117 Jun 26, 2019	ALS	28-Jun-19	11.66	12.31	11.96	2.88	11.04	<0.050	<0.25
27-Jun-19	L2300133-2	BURFA WMXU 2000565 Jun 26, 2019	ALS	28-Jun-19	11.67	12.3	11.87	2.88	10.66	<0.050	<0.25
28-Jun-19	L2301079-1	BURFA WMXU 2000462 Jun 27, 2019	ALS	2-Jul-19	11.66	12.27	11.82	2.88	9.96	<0.050	<0.25
28-Jun-19	L2301079-2	BURFA WMXU 2000879 Jun 27, 2019	ALS	2-Jul-19	11.69	12.28	11.82	2.88	10.17	<0.050	<0.25
2-Jul-19	L2302072-1	BURFAWMXU 2000668 Jun 30, 2019	ALS	3-Jul-19	11.68	12.32	12.03	2.89	10.82	<0.050	<0.25
2-Jul-19	L2302072-2	BURFAWMXU 2000478 Jun 30, 2019	ALS	3-Jul-19	11.68	12.3	11.93	2.89	10.79	<0.050	<0.25
4-Jul-19	L2304065-1	FA1906	ALS	10-Jul-19	11.49	12.25	11.86	2.9	10.25	<0.050	<0.25