

## Monthly Operating Reports

September 2019

---

The following September 2019 operating report was sent to the Ministry of Environment and Climate Change Strategy on November 4, 2019.







### Unit 3

Duration in Hours	Reason	Date
0.30	Induced draft fan trip	September 4
1.25	Underfire air plugged	September 9
0.80	Forced draft fan trip	September 11
1.12	Feed chute plugged	September 18
0.27	BC Hydro power outage	September 20
2.20	Feed chute plugged	September 22
0.23	Crane failure, blocked feed chute	September 24
0.55	Feed chute plugged	September 27
1.30	BC Hydro power outage	September 28
0.37	Feed chute plugged	September 28
29.80	Annual minor outage	Sept 29-30

### 5. Facility Bypass and Emergency/spill Event Report

Date/Time	Cause	Duration
	Action Taken	

### 6. Other Data

		UNIT 1	UNIT 2	UNIT 3
Waste Received	tonnes/day	17,675		
Waste Processed	tonnes/day	119	224	224
Maximum Waste Processed	tonnes/day	265	249	249
		Units 1, 2, and 3		
Natural Gas Consumed	m <sup>3</sup> /day	3,926		
	m <sup>3</sup> /month	117,768		
Fly ash disposed	tonnes	656		
Bottom ash disposed	tonnes	2,698		

### 7. Complaints and Responses

Date/Time	Complaint	Action Taken

September 2019 - Monthly CEMS Data

Date	Boiler #1								Boiler #2								Boiler #3							
	Stack Temp	O <sub>2</sub> (%)	SO <sub>2</sub> (mg/m <sup>3</sup> )	NO <sub>x</sub> (mg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	THC (mg/m <sup>3</sup> )	Opacity (%)	Furnace Temp	Stack Temp	O <sub>2</sub> (%)	SO <sub>2</sub> (mg/m <sup>3</sup> )	NO <sub>x</sub> (mg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	THC (mg/m <sup>3</sup> )	Opacity (%)	Furnace Temp	Stack Temp	O <sub>2</sub> (%)	SO <sub>2</sub> (mg/m <sup>3</sup> )	NO <sub>x</sub> (mg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	THC (mg/m <sup>3</sup> )	Opacity (%)	Furnace Temp
9/1/19	153	10	54.4	127.5	23.5	0.24	0.16	936	157	8.4	65.4	127.7	22	0.05	0.72	934	154	9.9	57.1	134.9	32.4	0.39	1.00	931
9/2/19	154	9.8	42.4	128.2	22.1	0.26	0.57	937	156	8.5	51.8	127.2	19.7	0.04	1.06	931	152	9.7	39.8	133.1	31.5	0.34	1.02	927
9/3/19	153	9.9	50.1	128.1	17.9	0.25	0.66	939	155	8.5	66.4	125.4	19.1	0.07	1.22	939	150	9.9	38.9	132.1	30.8	0.40	0.92	928
9/4/19	154	9.9	68.5	126	21	0.22	0.66	936	155	8.3	69.6	126.2	23.3	0.10	1.34	945	150	9.7	51.2	132	34.6	0.42	0.94	926
9/5/19	153	9.9	54.4	125.3	22.2	0.95	0.66	936	155	8.7	63	126	25	0.05	1.19	944	147	9.2	41.1	131.9	34.9	0.35	0.89	952
9/6/19	152	9.9	48.4	124.7	19.8	0.25	0.67	947	157	8.5	68.4	127.5	22.1	0.03	1.23	945	149	9.4	42.7	133.2	29.6	0.30	0.87	937
9/7/19	154	10	57.6	127.6	23	0.23	0.65	955	157	8.6	72.9	128.1	18.9	0.05	1.03	954	153	9.4	51.6	132.2	33	0.26	0.98	939
9/8/19	153	9.7	56.9	127.5	22.5	0.23	0.68	949	158	8.8	70.4	128.7	22	0.06	1.10	925	152	9	55.7	132.9	24.6	0.28	1.04	935
9/9/19									156	8.3	70.8	126.3	26.8	0.04	0.93	937	149	8.9	52.3	132.7	29.3	0.33	0.93	923
9/10/19									156	8.5	90	126.8	23.7	0.09	0.85	934	148	9.1	62.9	130.6	29.9	0.32	0.92	928
9/11/19									156	8.9	85.8	126.1	26.4	0.08	1.21	929	148	9.2	62.3	130.6	31.4	0.31	0.93	926
9/12/19									154	8.7	59.3	125.4	36.7	0.07	1.37	932	150	9.1	51.2	129.6	33.1	0.35	1.15	927
9/13/19									154	9.1	54.9	129.8	30.9	0.06	1.60	905	149	9.3	49.3	130	31.4	0.33	1.20	924
9/14/19									151	9.1	55.4	128.1	23.4	0.07	1.60	921	148	9.4	53.8	131.3	27.5	0.28	1.24	922
9/15/19									152	9.1	63.5	129.2	20.9	0.06	1.72	926	148	9.4	52.2	131.3	29.8	0.45	1.25	922
9/16/19									151	9.4	37.1	129.1	22.1	0.07	1.61	905	145	9.4	43.7	129.7	27.5	0.36	1.15	915
9/17/19									153	9.6	47.9	127.1	34	0.13	1.83	897	148	9.6	35	130.1	30.7	0.34	1.27	891
9/18/19									153	9.7	64.3	126.9	27	0.14	1.78	887	147	9.6	63.6	130.3	30.5	0.30	1.26	893
9/19/19																	146	9.8	54.7	129.7	35.7	0.61	1.25	914
9/20/19									151	9.1	72.6	126.8	33.8	0.15	1.64	941	149	9.4	49.8	131.4	31.2	0.33	1.25	935
9/21/19									155	9.1	89.3	131.5	27.7	0.23	1.73	944	150	9	68	135.4	23.8	0.35	1.28	942
9/22/19									154	9.5	90	130.9	26.8	0.06	1.88	917	150	9	76.5	132.7	25.6	0.32	1.39	927
9/23/19									155	9.4	61.1	129.6	24.2	0.08	2.13	903	151	9	45	132.1	31.3	0.28	1.37	915
9/24/19									157	8.8	82.4	129.6	28.2	0.28	2.08	902	153	8.9	66	132.6	29.9	0.27	1.39	911
9/25/19	151	9.1	103.2	122.8	21	0.26	0.54	880	156	9.2	104.6	130.8	35.1	0.62	2.17	914	152	9.4	76.4	131.8	29	0.24	1.42	908
9/26/19	150	9.3	95.5	129.8	28.4	0.25	0.51	882	156	9.3	71.4	129.7	27	0.05	1.99	898	151	9.9	63.1	132.2	35.3	0.88	1.39	897
9/27/19	153	9.6	119.9	132.6	21.4	0.20	0.51	893	156	9.3	76.3	129.9	25.5	0.05	2.18	905	150	9.5	72	130.5	29.2	0.31	1.43	916
9/28/19	150	9.9	124.8	133.1	24.7	0.22	0.53	893	154	9.1	76.3	129.1	19.1	0.08	2.10	919	152	9.5	87.4	132.5	28.3	0.32	1.49	890
9/29/19	149	9.5	158.1	131.3	22.6	0.20	0.54	906	156	9.4	121.6	130.9	19.7	0.08	1.82	911	153	9.4	131.3	132.1	29.8	0.33	1.58	898
9/30/19	151	9.8	120.5	133	27.5	0.28	0.59	902	158	9.4	81.8	130.5	25	0.10	1.22	917								
<b>Average</b>	152.1	9.7	82.5	128.4	22.7	0.29	0.57	920.8	155.0	9.0	71.9	128.3	25.4	0.10	1.53	922.8	149.8	9.4	58.4	131.8	30.4	0.36	1.18	920.7
<b>Min</b>	149.0	9.1	42.4	122.8	17.9	0.20	0.16	880.0	151.0	8.3	37.1	125.4	18.9	0.03	0.72	887.0	145.0	8.9	35.0	129.6	23.8	0.24	0.87	890.0
<b>Max</b>	154.0	10.0	158.1	133.1	28.4	0.95	0.68	955.0	158.0	9.7	121.6	131.5	36.7	0.62	2.18	954.0	154.0	9.9	131.3	135.4	35.7	0.88	1.58	952.0
<b>St Dev</b>	1.66	0.27	37.02	3.21	2.77	0.19	0.13	26.64	1.99	0.41	17.18	1.82	4.94	0.11	0.43	17.68	2.26	0.30	18.77	1.44	2.93	0.12	0.21	15.71

Blank days have less than 18 hours of valid data due to unit shut downs.  
 According to standard guidelines used by Metro Vancouver Air Quality Policy and Environment Division, a minimum of 18 hours of valid data is required to generate a valid 24hr average.