

## Monthly Operating Reports

October 2025

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The following October 2025 operating report was sent to the Ministry of Environment and Parks on December 8, 2025.



# Metro Vancouver - Waste-to-Energy Facility CONTINUOUS EMISSION MONITORING SYSTEM

October 2025

## 1. Monthly Summary Report

Parameter	Compliance Limit (mg/dscm)	Compliance Period	Maximum Measurement (mg/dscm)		
			Unit 1	Unit 2	Unit 3
CO	50	24 hr	36.7	28.0	32.5
SO <sub>2</sub>	200	24 hr	118.5	80.9	112.3
NOx	190	24 hr	150.2	134.8	134.6
THC	10	24 hr	2.12	0.63	0.33
			Monthly Average (mg/dscm)		
			Unit 1	Unit 2	Unit 3
Opacity (%)			0.56	0.54	0.79
CO			26.0	23.0	25.0
THC			0.16	0.31	0.13
SO <sub>2</sub>			67.7	54.7	85.3
NOx			128.6	125.7	129.0

Interim Discharge Limits will apply until and including the following dates, at which point the Discharge Limits and Response Limits will apply

a. HCl – March 3, 2025

b. SO<sub>2</sub> – March 3, 2025

## 2. Monthly Exceedance Report

### 2.a. Discharge Limit Exceedances

Unit	Compliance Parameter	Discharge Limit (mg/dscm)	Date	Exceedance Level
	Reason/Action Taken			

### 2.b. Response Limit Exceedances

Compliance Parameter: Carbon Monoxide

Response Limit: 100 mg/dscm 1/2 hour average

Unit No. 1

Date / Time	Duration	Exceedance (mg/dscm)	Action Taken
10-Oct 08:00	30 min	138.4	Started gas burners, adjusted airflow, modified feed rate.
14-Oct 03:00	30 min	111.6	Volatile fuel. Started gas burners, adjusted airflow, modified feed rate.
27-Oct 15:30	30 min	125.9	Volatile fuel. Adjusted airflow.
31-Oct 13:00	30 min	118.5	Started gas burners, adjusted airflow, modified feed rate.

Compliance Parameter: Carbon Monoxide  
 Response Limit: 100 mg/dscm 1/2 hour average  
 Unit No. 2

Date / Time	Duration	Exceedance (mg/dscm)	Action Taken
4-Oct 05:30	30 min	133.1	Started gas burners, adjusted airflow, modified feed rate.
7-Oct 09:00	30 min	125.5	Started gas burners, adjusted airflow, modified feed rate.
10-Oct 08:30	30 min	102.9	Poor refuse quality. Started gas burners, adjusted airflow, modified feed rate.
11-Oct 01:00	30 min	158.3	Started gas burners, adjusted airflow, modified feed rate.
29-Oct 18:00	30 min	161.7	Started gas burners, adjusted airflow., modified feed rate
31-Oct 11:00	30 min	284.2	Started gas burners, adjusted airflow, modified feed rate, checked instrumentation.

Compliance Parameter: Carbon Monoxide  
 Response Limit: 100 mg/dscm 1/2 hour average  
 Unit No. 3

Date / Time	Duration	Exceedance (mg/dscm)	Action Taken
6-Oct 18:30	30 min	103.5	Volatile fuel. Started gas burners, adjusted airflow, modified feed rate.
10-Oct 09:30	30 min	133.7	Started gas burners, adjusted airflow, modified feed rate.
28-Oct 21:30	30 min	119.1	Started gas burners, adjusted airflow, modified feed rate.
29-Oct 02:30	30 min	116.8	Feeder hang-up Started gas burners, adjusted airflow, modified feed rate.

### 2.c. Transient Conditions

Gas burners unavailable during shutdown and furnace temperature average below 800C

Unit	Duration	Date	Time	
<b>Cause</b>				
<b>Action Taken to Restore Steady State Conditions</b>				
<b>Remedial Action Planned and/or Taken</b>				

### 3. CEMS Availability

Analyzer	Required Availability (% hours per quarter)	Averaging Period	Monthly Availability		
			Unit 1	Unit 2	Unit 3
Opacity	90	Hour	100	100	100
Oxygen	90	Hour	99	97	99
CO	90	Hour	99	97	99
SO <sub>2</sub>	90	Hour	99	97	99
NOx	90	Hour	99	97	99
THC	90	Hour	99	97	99
Stack Flow	90	Hour	100	100	100

## 4. Shutdown Report

### Unit 1

Duration in Hours	Reason	Date
21.30	Grate bar replacement	October 1
111.43	Grate bar replacement	October 5-10
0.57	Ash discharger hang up	October 12
0.40	Feed chute hang up	October 12
0.91	Turbine card malfunction	October 16
0.71	BC Hydro power interruption	October 18
0.45	Volatile fuel	October 26
77.99	Scheduled major outage	October 27-30

### Unit 2

Duration in Hours	Reason	Date
0.42	Tube leak inspection	October 1
35.95	Tube leak repair	October 2-3
3.08	Tube leak inspection	October 8
1.42	Volatile fuel	October 11
1.20	Volatile fuel	October 11
0.22	Induced draft fan trip	October 11
392.19	Scheduled major outage	October 13-29
2.34	Poor refuse quality	October 31

### Unit 3

Duration in Hours	Reason	Date
10.33	Scheduled outage	October 1
1.85	Low drum level	October 1
1.16	Low drum level	October 10
1.77	Feed table repairs	October 13
335.72	Scheduled major outage	October 13-27
0.40	Turbine lost communication	October 29

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

Date/Time	Cause	Duration
	Action Taken	

## **6. Other Data**

		<b>UNIT 1</b>	<b>UNIT 2</b>	<b>UNIT 3</b>
Waste Received	tonnes	<b>11,395</b>		
Waste Processed	tonnes/day	<b>176</b>	<b>113</b>	<b>114</b>
Maximum Waste Processed	tonnes/day	<b>272</b>	<b>247</b>	<b>265</b>
Natural Gas Consumed	m <sup>3</sup> /day	<b>16,132</b>		
	m <sup>3</sup> /month	<b>500,089</b>		
Fly ash disposed	tonnes	<b>480</b>		
Bottom ash disposed	tonnes	<b>1,540</b>		

## **7. Complaints and Responses**

<b>Date/Time</b>	<b>Complaint</b>	<b>Action Taken</b>

October 2025 - 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	
10/1/25									135.7	9.4	20.0	125.3	20.7	0.23	2.08	885									
10/2/25	153.3	10.2	45.8	127.7	30.9	0.02	0.48	879									150.2	9.9	59.0	124.6	17.0	0.18	1.86	863	
10/3/25	153	12.2	37.7	119.8	26.8	0.63	0.55	845									150.8	10.1	55.3	127.5	27.1	0.06	0.93	853	
10/4/25	153.4	13.0	50.6	125.1	30.3	2.12	0.51	868	151.7	9.3	52.1	126.0	25.7	0.30	0.31	879	151.9	9.8	84.6	132.3	30.6	0.04	0.56	860	
10/5/25									152.3	9.5	80.9	126.4	23.6	0.28	0.40	870	150.3	9.6	104.0	131.2	26.6	0.09	0.55	858	
10/6/25									150.2	10.0	53.0	123.1	21.1	0.25	0.41	861	153.2	9.5	97.6	129.3	32.5	0.19	0.59	871	
10/7/25									150.9	10.1	60.9	126.1	27.8	0.26	0.40	865	153.5	9.9	112.3	129.7	27.9	0.10	0.61	864	
10/8/25									152.8	10.3	46.2	122.6	28.0	0.39	0.37	881	153.9	9.9	101.5	126.5	21.9	0.12	0.56	873	
10/9/25									152.9	10.1	43.6	125.7	19.8	0.23	0.33	874	150.9	9.4	91.2	128.6	30.4	0.21	0.55	888	
10/10/25									154.2	10.0	46.9	124.7	23.7	0.18	0.40	861	153.7	10.0	66.6	128.1	22.7	0.05	0.58	845	
10/11/25	153.7	9.6	107.8	150.2	27.5	0.01	0.53	908	153.7	10.2	59.6	124.2	27.8	0.31	0.42	850	155.2	9.8	102.8	130.6	30.4	0.33	0.57	864	
10/12/25	151.6	8.6	118.5	146.1	22.3	0.05	0.52	903	154.2	9.6	73.6	124.6	21.6	0.26	0.43	895	156.4	9.5	109.4	134.6	21.1	0.09	0.59	861	
10/13/25	153.2	9.3	74.0	133.7	21.8	0.09	0.57	904																	
10/14/25	149.1	9.0	95.4	126.9	25.7	0.08	0.62	894																	
10/15/25	154.4	9.3	75.7	125.9	22.2	0.01	0.65	896																	
10/16/25	157.4	9.4	84.1	123.7	36.7	0.02	0.67	913																	
10/17/25	155.4	9.2	78.8	127.1	27.4	0.00	0.56	851																	
10/18/25	157.4	9.5	59.7	124.0	26.3	0.02	0.57	949																	
10/19/25	156.8	9.0	84.0	126.3	28.5	0.09	0.59	893																	
10/20/25	158	9.3	53.5	125.6	25.5	0.00	0.58	850																	
10/21/25	157.8	9.6	86.8	134.3	28.6	0.01	0.54	920																	
10/22/25	155.5	9.4	50.7	122.5	32.4	0.02	0.57	896																	
10/23/25	155.8	9.4	47.5	127.6	25.8	0.01	0.65	913																	
10/24/25	156.5	8.8	51.0	126.4	20.8	0.00	0.58	883																	
10/25/25	156.5	9.0	59.8	124.7	22.0	0.00	0.65	947																	
10/26/25	157	8.9	45.0	126.6	16.3	0.00	0.64	932																	
10/27/25																									
10/28/25																	151.7	9.3	103.5	124.8	21.2	0.13	0.94	862	
10/29/25																	152	9.6	68.4	126.8	24.4	0.16	0.95	872	
10/30/25									139.2	9.6	60.9	134.8	11.5	0.63	0.48	880	151.4	9.2	63.3	130.3	21.9	0.06	0.99	867	
10/31/25	151	9.3	48.5	128.3	22.5	0.07	0.22	913	145.7	10.8	59.0	124.4	24.3	0.41	0.43	849.0	158.6	10.2	60.4	130.8	19.1	0.07	1.02	869.0	
<b>Average</b>	155	9.6	67.7	128.6	26.0	0.16	0.56	898	149	9.9	54.7	125.7	23.0	0.31	0.54	871	153	9.7	85.3	129.0	25.0	0.13	0.79	865	
<b>Min</b>	149	8.6	37.7	119.8	16.3	0.00	0.22	845	136	9.3	20.0	122.6	11.5	0.18	0.31	849	150	9.2	55.3	124.6	17.0	0.04	0.55	845	
<b>Max</b>	158	13.0	118.5	150.2	36.7	2.12	0.67	949	154	10.8	80.9	134.8	28.0	0.63	2.08	895	159	10.2	112.3	134.6	32.5	0.33	1.86	888	
<b>St Dev</b>	2.5	1.1	22.9	7.5	4.7	0.48	0.10	29.3	6.1	0.4	15.5	3.1	4.6	0.12	0.49	14.1	2.4	0.3	20.8	2.8	4.7	0.08	0.35	9.8	

Blank days have less than 18 hours of valid data due to unit shut downs or analyzer outage/maintenance. 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.