

## Monthly Operating Reports

December 2025

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The following December 2025 operating report was sent to the Ministry of Environment and Parks on February 13, 2026.



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

December 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	31.2	35.4	33.1
SO <sub>2</sub>	200	24 hr	145.9	99.9	132.7
NOx	190	24 hr	138.0	140.9	167.1
THC	10	24 hr	0.23	0.33	0.15
			Monthly Average (mg/dscm)		
			Unit 1	Unit 2	Unit 3
Opacity (%)			0.19	0.38	0.71
CO			26.0	24.3	26.0
THC			0.04	0.16	0.05
SO <sub>2</sub>			79.2	63.7	80.0
NOx			130.4	129.8	136.9

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
6-Dec 16:00	30 min	107.0	Volatile fuel. Started gas burners, adjusted airflow, modified feed rate.
12-Dec 16:30	30 min	106.6	Volatile fuel. Adjusted airflow.
17-Dec 10:30	30 min	106.7	Started gas burners, adjusted airflow, modified feed rate, checked instrumentation.
20-Dec 10:30	30 min	107.1	Volatile fuel. Started gas burners, adjusted airflow.
24-Dec 12:30	30 min	101.6	Feed chute hang up. 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
1-Dec 01:30	30 min	123.2	Volatile fuel. Started gas burners, adjusted airflow.
7-Dec 22:30	30 min	148.8	Started gas burners, adjusted airflow, modified feed rate.
8-Dec 01:00	30 min	130.0	Volatile fuel. Started gas burners, adjusted airflow.
10-Dec 00:00	30 min	148.2	Started gas burners, adjusted airflow, modified feed rate.
15-Dec 12:00	30 min	137.4	Started gas burners, adjusted airflow, modified feed rate.
16-Dec 14:30	30 min	181.9	Volatile fuel. Started gas burners, adjusted airflow, modified feed rate.
18-Dec 12:00	30 min	142.0	Adjusted airflow, modified feed rate.
21-Dec 22:00	30 min	113.9	Started gas burners, adjusted airflow, modified feed rate.
23-Dec 05:00	30 min	116.9	Volatile fuel. Started gas burners, adjusted airflow, modified feed rate.

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

Date / Time	Duration	Exceedance (mg/dscm)	Action Taken
3-Dec 06:30	30 min	145.5	Feed chute hang up. Started gas burners, adjusted airflow, modified feed rate.
3-Dec 10:00	30 min	131.2	Volatile fuel. Started gas burners, adjusted airflow.
8-Dec 11:30	30 min	100.2	Started gas burners, adjusted airflow, modified feed rate.
29-Dec 00:00	30 min	155.2	Volatile fuel. No action required

## 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	96	99	99
CO	90	Hour	96	99	99
SO <sub>2</sub>	90	Hour	96	99	99
NOx	90	Hour	96	99	99
THC	90	Hour	96	99	99
Stack Flow	90	Hour	100	100	100

## 4. Shutdown Report

### Unit 1

Duration in Hours	Reason	Date
45.85	Grate bar repair	December 2-4
1.49	Crane maintenance	December 5
0.40	Volatile fuel	December 10
11.14	Crane maintenance	December 11
44.40	Tube leak repair	December 14-16
1.12	Crane maintenance	December 17
0.62	Crane maintenance	December 18
6.35	Ash discharger maintenance	December 22
0.48	Volatile fuel. Furnace pressure trip	December 22
1.00	Crane maintenance	December 24
0.37	Volatile fuel. Furnace pressure trip	December 26
0.22	Volatile fuel. Furnace pressure trip	December 27
0.27	Volatile fuel. Furnace pressure trip	December 28
0.60	Volatile fuel. Furnace pressure trip	December 28
0.32	Volatile fuel. Furnace pressure trip	December 29
0.38	Crane maintenance	December 29

### Unit 2

Duration in Hours	Reason	Date
0.20	Volatile fuel	December 1
0.12	Volatile fuel. Furnace pressure trip	December 4
4.74	Volatile fuel. Furnace pressure trip	December 9
11.59	Crane maintenance	December 11
38.92	Tube leak repair	December 12-14
1.57	Crane maintenance	December 17
0.70	Crane maintenance	December 24
0.32	Volatile fuel	December 24
0.27	Volatile fuel. Furnace pressure trip	December 28
0.27	Crane maintenance	December 29

### Unit 3

Duration in Hours	Reason	Date
28.07	Grate bar repair	December 1-2
0.35	Feed chute plugged	December 3
11.50	Crane maintenance	December 11
1.23	Crane maintenance	December 17
3.06	Ash discharger repair	December 22
0.85	Crane maintenance	December 29
0.25	Volatile fuel. Furnace pressure trip	December 30
3.47	Feed chute plugged	December 30

## 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>21,136</b>		
Waste Processed	tonnes/day	<b>212</b>	<b>217</b>	<b>234</b>
Maximum Waste Processed	tonnes/day	<b>262</b>	<b>258</b>	<b>263</b>
Natural Gas Consumed	m <sup>3</sup> /day	<b>13,240</b>		
	m <sup>3</sup> /month	<b>410,437</b>		
Fly ash disposed	tonnes	<b>863</b>		
Bottom ash disposed	tonnes	<b>3,115</b>		

## **7. Complaints and Responses**

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

December 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	
12/1/25	157.3	9.9	81.2	128.1	20.4	0.00	0.34	898	152.8	10.0	93.7	126.6	24.5	0.23	0.77	907									
12/2/25									152.3	9.6	89.0	128.1	21.2	0.14	0.50	916	151.5	9.6	95.0	134.2	23.8	0.06	0.69	886	
12/3/25									152.1	9.6	82.9	133.4	21.4	0.11	0.29	912	151.5	9.5	108.7	134.7	21.9	0.11	0.63	895	
12/4/25	154.4	9.0	126.7	138.0	22.8	0.02	0.00	953	153.2	9.9	79.4	140.9	19.1	0.11	0.26	912	153.7	10.3	109.1	158.7	17.2	0.03	0.68	891	
12/5/25	153.6	9.0	120.8	131.4	17.3	0.00	0.11	934	152.1	9.5	91.8	131.2	23.7	0.24	0.27	908	155.2	9.7	132.7	141.1	21.0	0.04	0.71	909	
12/6/25	154.3	9.3	145.9	128.9	25.7	0.04	0.24	895	152.9	9.7	89.4	130.4	29.3	0.18	0.27	895	154	9.9	124.6	153.5	25.9	0.04	0.64	888	
12/7/25	154.9	9.9	133.4	130.0	30.2	0.02	0.24	960	153.6	10.0	99.9	133.1	33.7	0.18	0.28	896	154.6	10.2	124.1	157.8	25.3	0.03	0.65	899	
12/8/25	154.8	9.8	91.2	135.5	25.0	0.00	0.25	892	152.6	9.6	57.1	140.6	32.7	0.29	0.27	895	153.9	10.4	79.6	167.1	26.4	0.12	0.65	881	
12/9/25	155.1	10.3	111.5	130.4	31.2	0.19	0.24	904	151.9	10.0	82.3	132.6	24.3	0.15	0.31	880	154.4	10.5	101.4	153.1	28.6	0.04	0.70	878	
12/10/25	154.1	9.1	88.7	128.6	25.2	0.02	0.29	916	152.4	9.4	62.7	130.1	35.4	0.19	0.31	893	153.2	9.9	74.3	151.0	31.9	0.08	0.73	895	
12/11/25																									
12/12/25	154.7	9.0	82.1	129.2	25.9	0.06	0.28	957	152.2	9.2	64.4	126.2	27.3	0.26	0.28	890	153.6	10.0	86.5	131.4	25.9	0.03	0.72	887	
12/13/25	155.1	9.3	94.6	128.4	25.4	0.02	0.24	922									152.2	9.7	98.6	128.8	23.8	0.05	0.66	902	
12/14/25	154.8	9.0	92.5	128.1	24.1	0.02	0.23	946									152.4	9.7	97.3	127.5	23.2	0.04	0.66	899	
12/15/25									151.1	9.5	70.3	129.3	24.2	0.33	0.28	885	153.1	9.9	73.7	129.3	19.8	0.05	0.63	883	
12/16/25									151.1	10.1	82.0	126.9	33.9	0.20	0.27	882	152.9	10.1	86.3	129.2	31.2	0.01	0.68	882	
12/17/25	147.7	10.0	65.6	128.7	30.3	0.01	0.11	908	151.4	9.9	52.3	127.3	25.0	0.14	0.36	887	152.5	9.9	61.0	128.3	26.3	0.04	0.72	892	
12/18/25	150.9	10.0	48.1	131.5	29.4	0.00	0.11	903	151	9.7	43.6	128.5	29.4	0.09	0.37	895	153.3	10.0	46.8	128.0	31.6	0.02	0.73	869	
12/19/25	149.8	9.9	55.1	130.1	30.8	0.00	0.15	869	151.6	9.8	43.5	126.2	30.8	0.12	0.38	892	154.1	10.1	53.3	129.5	29.5	0.07	0.75	872	
12/20/25	150.9	9.5	57.0	129.2	25.4	0.07	0.14	927	152.7	9.4	46.0	128.5	27.1	0.04	0.37	885	154.7	9.6	64.4	130.9	27.7	0.02	0.73	874	
12/21/25	152.5	9.2	72.4	129.5	24.4	0.00	0.13	895	153.5	9.1	54.6	129.5	24.6	0.13	0.37	898	155.3	9.5	74.8	129.9	28.7	0.08	0.71	878	
12/22/25									152.2	9.6	52.7	128.2	18.1	0.17	0.37	903	153.7	10.3	60.1	126.7	22.1	0.02	0.69	898	
12/23/25	153.3	9.3	71.0	133.0	28.5	0.00	0.12	931	149	9.4	51.7	124.8	19.6	0.11	0.38	895	152	10.2	97.6	133.6	27.8	0.00	0.72	901	
12/24/25	154.1	9.4	63.3	128.8	30.2	0.05	0.13	958	149.6	9.4	46.9	125.1	23.2	0.17	0.38	894	151.9	10.0	62.1	132.9	29.8	0.02	0.69	906	
12/25/25	153.9	9.4	75.4	131.7	27.9	0.14	0.16	913	150.5	9.3	51.7	129.3	17.2	0.17	0.42	896	151.7	10.0	64.9	132.6	26.9	0.06	0.74	911	
12/26/25	153.7	9.1	43.3	129.8	26.6	0.07	0.20	946	150.4	8.8	49.8	129.2	18.8	0.12	0.44	906	151.8	10.0	53.2	131.9	26.5	0.03	0.75	904	
12/27/25	154.8	9.5	61.4	130.5	28.8	0.23	0.19	897	151.6	9.1	62.5	133.4	20.0	0.13	0.45	896	153.1	10.2	71.8	133.9	22.8	0.02	0.75	908	
12/28/25	155.1	9.6	54.0	133.6	21.6	0.00	0.23	954	151.1	9.1	53.4	132.5	16.1	0.09	0.49	901	154.4	10.4	57.2	137.7	24.1	0.02	0.80	898	
12/29/25	154.3	9.3	51.9	126.9	25.4	0.01	0.21	956	151.4	9.6	42.7	126.7	19.9	0.15	0.47	894	153.1	10.3	64.2	132.6	26.5	0.15	0.77	905	
12/30/25	154.6	9.3	49.8	131.4	25.1	0.00	0.23	983	151.1	9.3	46.6	126.6	23.0	0.10	0.47	896	154.2	10.3	53.4	131.2	33.1	0.13	0.80	907	
12/31/25	155.5	9.4	42.8	129.1	21.7	0.01	0.25	957	151.6	9.3	40.7	130.2	16.2	0.14	0.46	893	154.5	9.7	43.6	134.4	23.3	0.02	0.76	908	
<b>Average</b>	154	9.5	79.2	130.4	26.0	0.04	0.19	927	152	9.5	63.7	129.8	24.3	0.16	0.38	897	153	10.0	80.0	136.9	26.0	0.05	0.71	893	
<b>Min</b>	148	9.0	42.8	126.9	17.3	0.00	0.00	869	149	8.8	40.7	124.8	16.1	0.04	0.26	880	152	9.5	43.6	126.7	17.2	0.00	0.63	869	
<b>Max</b>	157	10.3	145.9	138.0	31.2	0.23	0.34	983	154	10.1	99.9	140.9	35.4	0.33	0.77	916	155	10.5	132.7	167.1	33.1	0.15	0.80	911	
<b>St Dev</b>	2.0	0.4	29.5	2.5	3.5	0.06	0.08	29.0	1.1	0.3	18.5	4.0	5.6	0.06	0.11	9.0	1.1	0.3	24.8	11.1	3.8	0.04	0.05	12.3	

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.