

**Metro Vancouver (MV) Activity Report
Parkland Refining / North Burnaby Community Advisory Panel (CAP)
CAP Meeting 2022**

Date: Wednesday, September 21, 2022

Reporting Period: June 1, 2022 through August 31, 2022

Overview of MV Update Content

Metro Vancouver has the regulatory authority specific to the discharge of air contaminants and management of non-domestic waste to sewer within the region. The Parkland Burnaby refinery has both an air discharge permit and liquid waste discharge permit that we administer. Both the permits have extensive monitoring and reporting requirements.

Typically, our summary at CAP is a snapshot of some of the activities related to the administration of the permits conducted since the last CAP reporting period. Topics can include:

- Site Inspections
- Summary of air quality complaints
- Odour surveys
- Response to specific Incidents (i.e. Parkland Advisories)
- Regional air quality management initiatives such as Bylaw development.

1. Parkland Refinery Notifications to Metro Vancouver

Number of Notifications	Details
2021 Total	95 notifications, 6 Level One notification
24	8 notifications regarding acid gas to flare/SRU. 1 high flare flow notification (> 50m ³ /min) 8 notification regarding sewer discharge. 2 notifications regarding stale data exceeding 4 hours (Jul 29/22, Aug. 19/22). 2 Level One Notifications – High flaring (June 5/22 elevated flaring due to power outage, July 7/22 minor maintenance on a processing unit). 2 SRU exceedances – July 26/22 (3 hours), July 31/22 (7 hours) 1 FCC exceedance – Aug. 19/22 (1 hour)

2. Air Quality Complaints Received by Metro Vancouver

Month/Year	Complaints	Confirmed	Comments
2021 Total	129	120	
June 2022	3	3	1 sulphurous, 2 petroleum odours
July 2022	6	6	6 petroleum odours
August 2022	7	4	2 oily sewer, 2 petroleum odours

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3. Odour Surveys Conducted by Metro Vancouver

Date	Activity
2021 Total	5 odour surveys.
June 2022	No odour surveys
July 2022	No odour surveys
August 2022	One odour survey

4. Site Inspections/Meetings between Metro Vancouver and Parkland

Date	Activity
2021 Total	4 inspections/monitoring audits, 14 meetings with Parkland staff.
June 2022	One meeting, no inspections/monitoring audits
July 2022	Two meetings, one inspection/monitoring audit
August 2022	One meeting, one inspection/monitoring audit.

5. Parkland Liquid Waste Permit

Date	Activity
2021 Total	One exceedance. Instantaneous flow limit exceedance
2022	No exceedances to date.

6. SOx Curtailment Events Reported to Metro Vancouver

Date	Activity
2021 Total	One – December 28/21 (0100-0200hrs & 0300 – 0400hrs)
2022	None to date.

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Parkland Air Quality Permit (GVA01217) Update

Parkland Refining's new permit was issued on July 28, 2022 (effective August 1, 2022). The new permit includes the following measures to further reduce emissions from the facility:

- Incorporates emission reductions identified in the approved Refined Technology Assessment Report (RTAR) - Capital Solutions. Specifically:
 - o Addition of a Tail Gas Treating Unit in the Sulphur Recovery Unit, and
 - o Addition of Flue Gas Recirculation in the CO Boiler;
- Incorporate emission reductions identified in the approved RTAR - non-Capital Solutions. Specifically:
 - o Reduction of permitted particulate matter in the Fluidized Catalytic Cracker (FCC),
 - o Reduction of permitted NOx emissions in the FCC, and
 - o Reduction of permitted SOx emissions in the FCC;
- Introduction of daily and annual throughput limits on all tanks;
- Facility wide annual emission restrictions for VOCs, HAPs and Methane;
- Requirements to assess flaring and Sulphur Recovery Unit (SRU) bypasses;
- Requirements for future Dispersion modeling, updated HHRA and Flare Minimization Plan; and,
- Requirement for a technical review of controls of VOCs, Methane, and NOx.

The full permit can be found on the Metro Vancouver website:

[http://www.metrovancouver.org/services/Permits-regulations-enforcement/air-quality/apply-permit/AirQualityPermitsSigned/1217%20-%20Parkland%20Refining%20\(B.C.\)%20Ltd.%20-%20AQ%20Permit%20-%20Issued%20July%2028%202022.pdf](http://www.metrovancouver.org/services/Permits-regulations-enforcement/air-quality/apply-permit/AirQualityPermitsSigned/1217%20-%20Parkland%20Refining%20(B.C.)%20Ltd.%20-%20AQ%20Permit%20-%20Issued%20July%2028%202022.pdf)